Measuring & monitoring systems Solutions for smart machines, factories & grids

Version 2022



Orange Selection Quick and easy planning

As a planning engineer, do you want to select products easily and receive them quickly? From a partner you can rely on? Then plan with the Orange Selection from Weidmüller in the future. The Orange Selection items are always available, carefully selected and the portfolio consists of more than 1,500 items to fully cover your standard needs.

If your order is placed before 3:00 pm, we guarantee that your order will be on its way the very next working day.

For even more efficient planning and production processes, we will of course provide all articles in digital form. CAD, ETIM and eClass data are available in our online product catalogue **catalog.weidmueller.com**

We have summarised all the advantages of the Orange Selection on our website.

Check it out: www.weidmueller.com/orange-selection





Measuring & monitoring systems

Hardware	Introduction	A
	Energy Meter	В
	Energy Analyser	C
	Energy Logger	D
	Current transformer	E
	Retrofit energy solutions	F
	Sensors - u-sense	G
	A comprehensive automation portfolio	н
Software	Energy management software	
	A comprehensive software portfolio	J
Applications	Applications in practice	K

Appendix	Service and support		V
	Index	Index Type / Index Order No. Addresses worldwide	X

Contents

Hardware

Energy Meter - BasicLine



- · Measurement of the basic electrical signals of an AC system
- Direct current measurement up to 100 A
- IEC 62053-21

Energy Logger

Energy Meter - ValueLine



- Detailed measurement of energy consumption • Voltage, current, power and energy visible at a
- glance
- High scalability

Page D.2

Current Transformers

Page E.2

Page E.18

- Universal measuring and monitoring solution
- Easy configuration & status request
- DIN mounting possible

Retrofit-Solutions

Plug&Play Boxes



- Integrated device memory
- Retrofit solution with IP54 protection class
- Data recording and display via ecoExplorer go

Connectivity-Boxes



- · Flexible choice of measuring devices
- Retrofit solution in protection class IP65
 - High-quality and prefabricated housing

Energy Analyser

Page B.10

Page C.2



- Integrated residual current monitoring
- Measurement according to common standards EN 50160, IEEE 519 or IEC 61000-2-4
- DIN rail devices for basic requirements

Rogowski-Coil



- Integrated temperature measurement
- Integrated Modbus interface
- Data memory up to 32 MB



- Galvanically isolate primary and secondary circuit from each other
- Measuring in different measuring environments



Sensors

u-sense vibration u-sense energy drives Page G.2 Page G.8 Image: Constraint of the sense energy drives Page G.8 Image: Constraint of the sense energy drives Page G.8 Image: Constraint of the sense energy drives Page G.8 Image: Constraint of the sense energy drives Page G.8 Image: Constraint of the sense energy drives Page G.8 Image: Constraint of the sense energy drives Image: Constraint of the sense energy drives Image: Constraint of the sense energy drives Page G.8 Image: Constraint of the sense energy drives Page G.8 Image: Constraint of the sense energy drives Page G.8 Image: Constraint of the sense energy drives Page G.8 Image: Constraint of the sense energy drives Page G.8 Image: Constraint of the sense energy drives Page G.8 Image: Constraint of the sense energy drives Page G.8 Image: Constraint of the sense energy drives Page G.8 Image: Constraint of the sense energy drives Page G.8 Image: Constraint of the sense energy drives Page G.8 Image: Constraint of the sense energy drives Page G.8 Image: Constraint of the sense energy drives Page G.8</td

Comprehensive automation portfolio

I/O System - u-remote **Controls - u-control** Web-Panels - u-view Page H.4 Page H.12 Page H.18 Dual-Core CPU • Modular I/O system **Resitive & Multi-Touch** • Protection class IP20 • 512 Mbyte RAM • Sizes from 4" - 15,6" available • Various modules & fieldbus couplers • Integrated software u-OS • Different case types / different designs Industrial PCs - u-view **IoT-Gateway** Page H.20 Page H.22

• Optimized design for every performance class

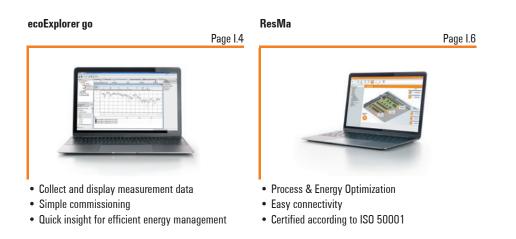
• From Intel Atom to Intel Core i7

• Passively cooled

• Latest SSD technology

• Versatile IT integration

Software



Comprehensive software portfolio

u-create PROCON WEB



- Visualization software
- Embedded and SCADA variant available
- Web visualization

u-link - Remote Access



- Low configuration effort
- Individual system management
- Secure remote access and fault diagnosis

Industrial Analytics - Auto ML



- End-to-end solution
- Simple machine learning
- Build new business models

Introduction

Introduction

Industrial IoT with measuring and monitoring systems	A.2
Total Energy Monitoring	A.4

Industrial IoT with measuring and monitoring systems

The way to Industrial IoT does not have to be complicated. No matter whether access to valuable data is required or if new, data-related services are to be generated, Weidmüller offers components and services for easy access to the Industrial IoT.

With the comprehensive, future-oriented and coordinated loT-capable portfolio, the path to the Industrial IoT can be a successful one – "from data to value" – both for greenfield and brownfield applications. The solutions from the areas of data acquisition, data pre-processing and data communication form the infrastructure on which the logical linking and evaluation of the collected information – the data analysis – is based. One thing is clear: digitalisation is not an end in itself. The added value is exploited in the specific use case, whether this is the collection of process data, energy management, ensuring availability with condition monitoring or deploying service technicians more efficiently thanks to remote maintenance. And last but not least, new business models can be created by using artificial intelligence without having to be a data scientist – Weidmüller is designing the digital transformation both with and for the user: it's simple and efficient.

Industrial Internet of Things (IIoT) is increasingly permeating the production

<text><text>

A

Industrial IoT, Data Acquisition & Energy Management Product Portfolio

Holistic Offering for Industrial Data Acquisition









Software Solutions

- ResMa[®] Resource Manager
- u-create visu / PROCON WEB
- Communication
- IoT Gateway
- ResMa[®] connectors
- Automation
- u-control and I/O modules
- HMI and Edge-PC
- Engineering tools

Measurement

- Energy Meter and Analyser
- Transformers
- Rogowski System



Data Preprocessing

Data Analysis &

Business Logic

Data Acquisition



Services

Engineering & Services

- Measuring concepts
- Application engineering
- Data services



Engineered Products

- Pre-assembled sets
- Plug&Play retrofit boxes

Target Applications

measuring systems	Energy Monitoring & Management	 Manufacturing companies that want to improve energy efficiency (ISO 50001 – EN 16247-1) Customers with trouble in grid quality as well as electromagnetic compatibility Improvement of plant availability by measuring residual currents
loT with nitoring	Factory Data Acquisition	 Companies that want to improve and monitor their production (processes) as well as their manufacturing environment Customers with need of condition monitoring or live visualization of production Automation and integration of different silo applications from different suppliers
Industrial and mo	Machine Data Acquisition	 Machine builders that want to monitor their machines in the field Machine integrators willing to improve their maintenance contract and offer new services for their end customers Data acquisition of different machine types with various PLCs

Α

Maximum energy efficiency and plant availability Tap new potential with Total Energy Monitoring

Total Energy Monitoring is Weidmüller's holistic modular system for measuring and monitoring the power supply network. Entire manufacturing energy networks can be continuously monitored and analysed in detail – even remotely.

Effectively maximise energy efficiency and plant availability

Climate change and dwindling resources are global megatrends that are increasingly influencing corporate action. It also holds true that if you reduce energy costs, you increase profitability. In addition, high plant availability is playing an increasingly prominent role for ensuring efficient production processes. These factors require a specific package of measurements that is individually tailored for each company.

With Total Energy Monitoring, Weidmüller has developed an equally comprehensive and flexible product range for individual solutions: hardware, software and consultancy services are tailored to fulfil the purpose of the customerspecific Energy Management solution. The concept supports also the international ISO 50001 directive and makes projects easier to plan and realise.

Seamless portfolio for plants of all sizes

Achieve full transparency of your manufacturing energy consumption. Manufacturing energy networks can be fully monitored and analysed from the interconnection point and sub-distribution all the way down to the individual machine modules. You gain a better understanding of the process and more control over your energy costs and machine processes.

The Weidmüller solution supports this optimisation process with software and hardware components which can be used flexibly. They are highly compatible, even when used in collaboration with already installed energy measurement systems and can be easily adjusted to individual application requirements. In short, you can always rely on a seamless production portfolio with optimum quality for all levels of production. The improved availability and efficiency of your entire plant will quickly become noticeable.





Expertise and awards

Weidmüller has a long tradition of energy efficiency. During the time between receiving our first award, the ASU Environmental Prize in 1990, and the German Innovation Award in 2018, we have enjoyed decades of pioneering work and development. An outstanding example of accurate energy monitoring is our production location in Detmold, which was awarded the title of a climate protection company in 2013. Implemented with our proprietary components, the hardware in combination with the specialised software provides the best prerequisites for successful energy monitoring.



Total Energy Monitoring for all four levels of production

The Total Energy Monitoring concept ensures consistency from interconnection points in the factory, down the production lines and individual machines and into the heart of the machine processes.

The solution allows you to monitor current and energy measurement data as well as other process data relevant for energy monitoring within your entire concept, such as flow rates, temperatures or pressures. Transferring the measurement data to a central data server allows for immediate access and prompt evaluation using the u-create ResMa® software.

In addition the flexible remote maintenance solution u-link is available which provides the ability to communicate from remote into the machine module level.



Energy Meter

Energy Meter

Introduction BasicLine	B.2
Selection table	B.4
Energy Meter – BasicLine	B.6
Introduction ValueLine	B.10
Selection table	B.12
Energy Meter – ValueLine	B.14

Accurate, reliable and cost-effective energy measurement Universal meters with direct display in a modern design

BasicLine is the measuring device portfolio for the cost-effective acquisition of basic electrical parameters in low-voltage power networks.

The devices will measure and display all the fundamental electrical parameters in a LCD. The portfolio includes devices for one- or three-phase measurement. It is mounted on a DIN rail or in the front panel. Several current measurement versions are available: either for 1A/5A current transformers or for direct current measurement up to 100A. Depending on the version, the measuring devices have an integrated Ethernet or RS485 interface.

Your special advantages:

- Simple and reliable measurement of the basic electrical parameters of an AC system.
- In addition to measurement via current transformers, direct current measurement up to 100A is also possible.
- Bi-directional measurement for kW and kWh.
- Complies to the requirement of class 1 active energy measurement and conforms to IEC 62053-21 standards.



Simple and reliable measurement Simple and reliable measurement of the basic electrical parameters of an AC system.



In addition to measurement via 1A/ 5A current transformers, direct current measurement up to 100A is also possible.

B

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Туре	EM111-RTU-2P	EM110-RTU-2P	EM120-RTU-2P	EM122-RTU-2P	EM220-RTU-4DI2DO	
Order No.	7760051001	7760051002	7760051004	7760051003	7760051005	
Type of mounting	DIN rail	DIN rail	DIN rail	DIN rail	Front panel mounting	
Display	LCD	LCD	LCD	LCD	LCD round diagram	
Technical Characteristics						
Measuring range, Voltage L-N, AC (without transducer)	176276 V	176276 V	138276 V	138276 V	50345 V	
Measuring range, Voltage L-L, AC (without transducer)			240480 V	240480 V	50600 V	
Overvoltage category	CAT II	CAT II	CAT III	CAT III	CAT III	
Power supply voltage	176276 V	176276 V	85275 V AC	138276 V	75270 V	
Two wire	•	•			-	
Three wire	-		•	•	•	
Four wire	-	· · ·	•	•	•	
Measurement accuracy for active energy (kWh,/5 A)	Class 1	Class 1	Class 0.5	Class 0.5	Class 0.5	
Measuring accuracy for voltage	0.5 %	0.5 %	0.5 %	0.5 %	0.2 %	
Measuring accuracy for current	0.5 %	0.5 %	0.5 %	0.5 %	0.2 %	
Number of digital inputs	-				4	
Number of digital outputs	-				2	
Number of pulse outputs	2	2	2	2		
Current measurement channel	1	1	3	3	3	
Interfaces						
RS485	•	•	•	•	•	
Ethernet	-					
Protocols						
Modbus RTU	•	•	•	•	•	
Modbus-Gateway	-	-	-	-	-	

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2886810000
2000010000

EM220-RTU-4DI2DO-GW 7760051006 Front panel mounting LCD round diagram

50...345 V

50...600 V CAT III 75...270 V

• Class 0.5 0.2 % 0.2 % 4 2 3 •

•

Energy meters for DIN rail mounting

EM111-RTU-2P

B

Technical data

Measurement range, voltage L-N, AC Measurement range, voltage L-L, AC Surge voltage category Voltage supply Three-wire system Four-wire system Measuring accuracy for voltage Measuring accuracy for current Measurement accuracy for active energy (kWh, .../5 A) Number of digital inputs Number of digital outputs Number of pulse outputs Current-measuring channels Interface Protocol Note

Ordering data

Note

176...276 V II 0.5 % 0.5 % Class 1 (IEC 62053-21), Class B (EN 50470-3) 2 1 RS485 Modbus RTU

11			
0.5 %			
0.5 %			
Class 1 (IEC 62053-21), Class B (E	N 50470-3)	
2			
1			
RS485			
Modbus RTU			

Туре	Qty.	Order No.
EM110-RTU-2P	1	7760051002

Туре	Qty.	Order No.
EM111-RTU-2P	1	7760051001

Energy meters for DIN rail mounting

EM120-RTU-2P





EM122-RTU-2P

Technical data

Measurement range, voltage L-N, AC
Measurement range, voltage L-L, AC
Surge voltage category
Voltage supply
Three-wire system
Four-wire system
Measuring accuracy for voltage
Measuring accuracy for current
Measurement accuracy for active energy (kWh,/5 A)
Number of digital inputs
Number of digital outputs
Number of pulse outputs
Current-measuring channels
Interface
Protocol
Note

138...276 V 240...480 V III 85...275 V AC Yes 0.5 % 0.5 % Class 0.5 2 3 RS485 Modbus RTU

138276 V
240480 V
III
Yes
Yes
0.5 %
0.5 %
Class 0.5
2
3
RS485
Modbus RTU

Ordering data

Note

 Τγρε
 Ωty.
 Order No.

 EM120-RTU-2P
 1
 7760051004

Туре	Qty.	Order No.
EM122-RTU-2P	1	7760051003

В

B

Technical data

Measurement range, voltage L-N, AC
Measurement range, voltage L-L, AC
Surge voltage category
Voltage supply
Three-wire system
Four-wire system
Measuring accuracy for voltage
Measuring accuracy for current
Measurement accuracy for active energy (kWh,/5 A)
Number of digital inputs
Number of digital outputs
Number of pulse outputs
Current-measuring channels
Interface
Protocol
Note

EM220-RTU-4DI2DO





EM220-RTU-4DI2DO-GW

50...345 V 50...600 V ||| 75...270 V AC, 100...380 V DC Yes Yes 0.5 % Class 0.5S (IEC 62053-22), Class 0.5 (IEC 61557-12) 4 2 3 RS485 Modbus RTU

5034	45 V	
5060	00 V	
III		
752	70 V AC, 100380 V DC	
Yes		
Yes		
0.5 %		
0.5 %		
Class (D.5S (IEC 62053-22), Class 0.5 (IEC 61557-12	2)
4		
2		
3		
RS485	5, Ethernet	
Modbu	ıs RTU, Modbus/TCP (Port 502), Modbus-Gate	way

Ordering data

Note

Туре EM220-RTU-4DI2DO Qty. Order No. 7760051005 1

Туре	Qty.	Order No.
EM220-RTU-4DI2D0-GW	1	7760051006

Measuring energy consumption of production plants in detail Weidmüller energy measuring devices make energy efficiency transparent

B

Energy Meter

Energy networks of industrial plants are complex. Our ValueLine energy meters make it possible to divide them into manageable areas for convenient analysis of consumption and other energy parameters. Many companies want to conserve energy sources, use energy more efficiently and maximize the availability of energy networks.

This not only shows a sense of responsibility but is also recommended for economic reasons. Weidmüller energy measuring devices can do much more than just measure the consumption of electrical energy. Among other things, they are also suitable for determining basic parameters for energy quality or for analyzing the currents of all conductors individually and differentially - like our Energy Meter 750. This gives you a quick overview of how the electrical energy in your production facility is doing. This applies both in terms of efficient use as well as quality, stability and availability.

But not every measuring device is suitable for every application. You can select the adequate measuring device for each of your plant components from our comprehensive, modular device portfolio.



В

Measurement data at a glance

In devices with integrated display, the essential measurement data such as voltage, current, power and energy can be conveniently read off immediately





High scalability

Thanks to the extensive range of energy measuring devices, you can divide the energy networks of your production sites as precisely as you like and carry out detailed measurements per area

258

282

278

B

			- 25 - 26 - 27 %	2	- 25 - 26 - 27 - 31	2	
Туре	EM D370-CBM	EM D650		520	EM 525		
Order No	2540830000	2425490000	24 2500860000	230 2500880000	24 2540880000	230 2540890000	
Order No.	DIN rail	DIN rail					
Type of mounting	LCD	LCD		el mounting CD		el mounting CD	
Display	LUD	LCD	L	ωD	L	LU	
Technical Characteristics							
Measuring range, Voltage L-N, AC	277 V	277 V	27	7 V	27	7 V	I.
(without transducer)							
Measuring range, Voltage L-L, AC	480 V	480 V	48	0 V	48	0 V	I.
(without transducer)	000 1/ 017 11	000 1/ 017 11		0.1T III		0.17.111	
Overvoltage category	300 V CAT III	300 V CAT III		CAT III		CAT III	
Power supply voltage		95 - 240 V AC; 135 - 340 V DC	24 - 90 V AC;	90 - 277 V AC;	24 - 90 V AC;	90 - 277 V AC;	l
			24 - 90 V DC	90 - 250 V DC	24 - 90 V DC	90 - 250 V DC	
Three wire	•	•		•		•	
Four wire	•	•		•		•	⊢
Sampling frequency 50/60 Hz	5.4 kHz	20 kHz		25.6 kHz		25.6 kHz	L
Measurement points per second	5,400	20,000	21,330,		21,330		ļ
Measurement results per second	5	5		5		5	ļ
Measuring accuracy for voltage	0.20 %	0.20 %	0.2		0.2	-	ļ
Measuring accuracy for current	0.20 %	0.25 %	0.2	0 %	0.2	0 %	ļ
Number of digital inputs	-	2				-	ļ
Number of digital outputs	-	2		2		-	L
Number of pulse outputs	-	2		2		-	L
Current measurement channel	3	4	:	3		3	L
Temperature input	-	1		-		-	L
Memory size	4 MB Flash	4 MB Flash		-		-	ļ
Number of memory values	160 k	156 k		-		-	
Interfaces							
RS232	•	•		-		-	
RS485	•	•		•		-	
USB	•	-		-		-	
Profibus DP	•	-		-		-	
M-Bus		-		-		-	
Ethernet		-		-		•	
Webserver / E-Mail	-	-					
Protocols							
Modbus RTU	•	•		•			
Modbus-Gateway		-		-		-	
Profibus DP VO		-		-		-	
Modbus TCP/IP, Modbus RTU over Ethernet, SNMP				-			
BACnet (optional)		-					
Profinet							

258 . 262 : 278 :: 2 78 ::		- 258 - - 258 - - 278 :: - 278 ::		- 258 . - 262 - 278 :: a: ©©		- 258. - 252 - 278. 278. 2			
	EM	610	EM 6	10 PB	EM	750	EM 70	EM 700 PN	
	24	230	24	230	24	230	24	230	
	2540920000	2540850000	2540860000	2540870000	2540900000	2540910000	2500870000	2500890000	
	Front pane	el mounting	Front pane	el mounting	Front pan	el mounting	Front pane	el mounting	
	Ľ	CD	L	CD	L	CD	L	CD	
	27	7 V	27	7 V	27	7 V	27	7 V	
	480 V		480 V		480 V		480) V	
	300 V	CAT III	300 V	CAT III	300 V	CAT III 300 V CAT III		CAT III	
	24 - 90 V AC;	90 - 277 V AC;	24 - 90 V AC;	90 - 277 V AC;	24 - 90 V AC;	90 - 277 V AC;	24 - 90 V AC;	90 - 277 V AC;	
	24 - 90 V DC	90 - 250 V DC	24 - 90 V DC	90 - 250 V DC	24 - 90 V DC	90 - 250 V DC	24 - 90 V DC	90 - 250 V DC	
	•			•		•	•		
	•			•		•	•	•	
	21.33 / 25.6 kHz		21.33 / 25.6 kHz		21.33 / 25.6 kHz		21.33 / 2	25.6 kHz	
	21,330,	/ 25,600	21,330 /	21,330 / 25,600 21,330 / 25,600 21,33		21,330 /	25,600		
	5		5		Į	5	5	5	
	0.2	0 %	0.20 %		0.20 %		0.20 %		
	0.20 %		0.20 %		0.20 %		0.20 %		
	4		4		3		3		
_	6		6		5		5		
	6		6		5		5		
	4		4		4+2		4+2		
	-		-		2		2		
_	256 MB		256 MB		256 MB		-		
	10.000 k		10.000 k		10.0	100 k	-		

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Energy meters for DIN rail mounting

Technical data

iechnical data	
Measurement range, voltage L-N, AC	277 V
Measurement range, voltage L-L, AC	480 V
Surge voltage category	300 V CAT III
Voltage supply	
Three-wire system	No
Four-wire system	Yes
Quadrants	4
Sampling frequency 50/60 Hz	5.4 kHz
Continuous measurements	Yes
Effective value from the period (50/60 Hz)	10 / 12
Measurement result per second	5
Residual current measuring	No
Harmonics, per order / voltage	125., odd
Harmonics, per order / current	125., odd
Unbalanced	No
Positive, negative and zero system	Yes
Measuring accuracy for voltage	0.2 %
Measuring accuracy for current	0.2 %
Measurement accuracy for active energy (kWh,/5 A)	Class 0.5S
Number of digital inputs	
Number of digital outputs	
Number of pulse outputs	
Current-measuring channels	3
Temperature input	No
Memory; minimum and maximum values	Yes
Memory size	4 MB
Interface	RS485: 9,6 - 115,2 kbps
Protocol	Modbus RTU
Note	

Ordering data

Note

Туре	Qty.	Order No.
ENERGY METER D370-CBM	1	2540830000

Energy Meter 370-CBM

Energy Meter 520-24



Energy Meter 520-230



Technical data

Measurement range, voltage L-N, AC
Measurement range, voltage L-L, AC
Surge voltage category
Voltage supply
Three-wire system
Four-wire system
Quadrants
Sampling frequency 50/60 Hz
Continuous measurements
Effective value from the period (50/60 Hz)
Measurement result per second
Residual current measuring
Harmonics, per order / voltage
Harmonics, per order / current
Unbalanced
Positive, negative and zero system
Measuring accuracy for voltage
Measuring accuracy for current
Measurement accuracy for active energy (kWh,/5 A)
Number of digital inputs
Number of digital outputs
Number of pulse outputs
Current-measuring channels
Temperature input
Memory; minimum and maximum values
Memory size
Interface
Protocol
Note

277 V 480 V 300 V CAT III 24 - 90 V AC (50/60 Hz), 24 - 90 V DC Yes Yes 4 25.6 kHz Yes 10 / 12 5 No 1.-40. 1.-40. No Yes 0.2 % Class 0.5S 2 2 No Yes RS485: 9,6 - 115,2 kbps Modbus RTU

277 V
480 V
300 V CAT III
90 - 277 V AC (50/60 Hz), 90 - 250 V DC
Yes
Yes
4
25.6 kHz
Yes
10 / 12
5
No
140.
140.
No
Yes
0.2 %
0.2 %
Class 0.5S
2
2
3
No
Yes
RS485: 9,6 - 115,2 kbps
Modbus RTU

Ordering data

Accessories

Note

Туре	uty.
ENERGY METER 520-24	1
	0.61

DIN rail adapters Seal Fixing clamps

Qty.	Order No.
ENERGY METER BRACKET S2 1	2433070000
ENERGY METER SEAL L96-2 1	2495610000
ENERGY METER FIXING SET 1	2433030000

Order No. 2500860000

Туре	Qty.	Order No.
ENERGY METER 520-230	1	2500880000
	Qty.	Order No.

	Uty.	Urder No.
ENERGY METER BRACKET S2	1	2433070000
ENERGY METER SEAL L96-2	1	2495610000
ENERGY METER FIXING SET	1	2433030000

IN	L	

Energy Meter

B

Technical data

Measurement range, voltage L-N, AC
Measurement range, voltage L-L, AC
Surge voltage category
Voltage supply
Three-wire system
Four-wire system
Quadrants
Sampling frequency 50/60 Hz
Continuous measurements
Effective value from the period (50/60 Hz)
Measurement result per second
Residual current measuring
Harmonics, per order / voltage
Harmonics, per order / current
Unbalanced
Positive, negative and zero system
Measuring accuracy for voltage
Measuring accuracy for current
Measurement accuracy for active energy (kWh,/5 A)
Number of digital inputs
Number of digital outputs
Number of pulse outputs
Current-measuring channels
Temperature input
Memory; minimum and maximum values
Memory size
Interface
Protocol
Note

Energy Meter 525-24



Energy Meter 525-230



	80 V
	DO V CAT III
-	4 - 90 V AC (50/60 Hz), 24 - 90 V DC
_	es
_	es
4	
_	5.6 kHz
	es
1	D / 12
5	
N	0
1.	-40.
1.	-40.
N	0
Yı	es
0.	2 %
0.	2 %
CI	ass 0.5S
3	
N	0
Yı	es
F	1
	:hernet Iodbus/TCP, Modbus RTU over Ethernet

077.1/	
277 V	
480 V	
300 V CAT III	
90 - 277 V AC (50/60 Hz), 90 - 2	50 V DC
Yes	
Yes	
4	
25.6 kHz	
Yes	
10 / 12	
5	
No	
140.	
140.	
No	
Yes	
0.2 %	
0.2 %	
Class 0.5S	
3	
No	
Yes	
Ethernet	
Modbus/TCP, Modbus RTU over E	thernet

Ordering data

Туре	Qty.	Order No.
ENERGY METER 525-24	1	2540880000

Δ.	rr	۵c	sn	rı	9Q

Note

DIN rail adapters

Fixing clamps

Seal

Qty.	Order No.
ENERGY METER BRACKET L1 1	2433060000
ENERGY METER SEAL L96-2 1	2495610000
ENERGY METER FIXING SET 1	2433030000

Туре	Qty.	Order No.
ENERGY METER 525-230	1	2540890000

	Qty.	Order No.
ENERGY METER BRACKET L1	1	2433060000
ENERGY METER SEAL L96-2	1	2495610000
ENERGY METER FIXING SET	1	2433030000

Note

Energy Meter 610-24



Energy Meter 610-230



Technical data

Measurement range, voltage L-N, AC
Measurement range, voltage L-L, AC
Surge voltage category
Voltage supply
Three-wire system
Four-wire system
Quadrants
Sampling frequency 50/60 Hz
Continuous measurements
Effective value from the period (50/60 Hz)
Measurement result per second
Residual current measuring
Harmonics, per order / voltage
Harmonics, per order / current
Unbalanced
Positive, negative and zero system
Measuring accuracy for voltage
Measuring accuracy for current
Measurement accuracy for active energy (kWh,/5 A)
Number of digital inputs
Number of digital outputs
Number of pulse outputs
Current-measuring channels
Temperature input
Memory; minimum and maximum values
Memory size
Interface
Protocol
Note

277 V
480 V
300 V CAT III
24 - 90 V AC (50/60 Hz), 24 - 90 V DC
Yes
Yes
4
25.6 kHz
Yes
10 / 12
5
No
140.
140.
No
Yes
0.2 %
0.2 %
Class 0.5S
4
6
6
4
No
Yes
256 MB
RS485: 9,6 - 115,2 kbps, USB
Modbus RTU

277 V
480 V
300 V CAT III
90 - 277 V AC (50/60 Hz), 90 - 250 V DC
Yes
Yes
4
25.6 kHz
Yes
10 / 12
5
No
140.
140.
No
Yes
0.2 %
0.2 %
Class 0.5S
4
6
6
4
No
Yes
256 MB
RS485: 9,6 - 115,2 kbps, USB
Modbus RTU

Ordering data

Accessories

Note

Туре	Qty.	Order No.
ENERGY METER 610-24	1	2540920000

Qt	γ.	Order No.
ENERGY METER BRACKET L1	1	2433060000
ENERGY METER SEAL L96-2	1	2495610000
ENERGY METER FIXING SET	1	2433030000

DIN rail adapters Seal Fixing clamps

Туре	Qty.	Order No.
ENERGY METER 610-230	1	2540850000

	Qty.	Order No.
ENERGY METER BRACKET L1	1	2433060000
ENERGY METER SEAL L96-2	1	2495610000
ENERGY METER FIXING SET	1	2433030000

Energy Meter

Energy Meter

B

Technical data

Measurement range, voltage L-N, AC
Measurement range, voltage L-L, AC
Surge voltage category
Voltage supply
Three-wire system
Four-wire system
Quadrants
Sampling frequency 50/60 Hz
Continuous measurements
Effective value from the period (50/60 Hz)
Measurement result per second
Residual current measuring
Harmonics, per order / voltage
Harmonics, per order / current
Unbalanced
Positive, negative and zero system
Measuring accuracy for voltage
Measuring accuracy for current
Measurement accuracy for active energy (kWh,/5 A)
Number of digital inputs
Number of digital outputs
Number of pulse outputs
Current-measuring channels
Temperature input
Memory; minimum and maximum values
Memory size
Interface
Protocol
Note

Ordering data

Accessories

Note

Accessories

DIN rail adapters Seal

Fixing clamps

Energy Meter 610 PB-24



Energy Meter 610 PB-230



27	7 V
	0 V
30	0 V CAT III
24	- 90 V AC (50/60 Hz), 24 - 90 V DC
Ye	S
Ye	S
4	
25	.6 kHz
Ye	S
10	/ 12
5	
No	
1	40.
1	40.
No	
Ye	8
0.2	2 %
0.2	2 %
Cla	ss 0.5S
4	
6	
6	
4	
No	
Ye	8
25	6 MB
RS	485: 9,6 - 115,2 kbps, Profibus DP, USB
	odbus RTU, Profibus DP VO

277	V
480	V
300	V CAT III
90 -	277 V AC (50/60 Hz), 90 - 250 V DC
Yes	
Yes	
4	
25.6	δ kHz
Yes	
10 /	12
5	
No	
14	D.
14	D.
No	
Yes	
0.2	%
0.2	•
Clas	s 0.5S
4	
6	
6	
4	
No	
Yes	
	MB
RS4	85: 9,6 - 115,2 kbps, Profibus DP, USB

Туре	Qty.	Order No.
ENERGY METER 610-PB-24	1	2540860000

	Qty.	Order No.
ENERGY METER BRACKET L1	1	2433060000
ENERGY METER SEAL L96-2	1	2495610000
ENERGY METER FIXING SET	1	2433030000

Туре	Qty.	Order No.
ENERGY METER 610-PB-230	1	2540870000

	Qty.	Order No.
ENERGY METER BRACKET L1	1	2433060000
ENERGY METER SEAL L96-2	1	2495610000
ENERGY METER FIXING SET	1	2433030000

Note

Energy Meter 700 PN-24



2 5 F

Energy Meter 700 PN-230



Energy Meter

В

Technical data

Measurement range, voltage L-N, AC
Measurement range, voltage L-L, AC
Surge voltage category
Voltage supply
Three-wire system
Four-wire system
Quadrants
Sampling frequency 50/60 Hz
Continuous measurements
Effective value from the period (50/60 Hz)
Measurement result per second
Residual current measuring
Harmonics, per order / voltage
Harmonics, per order / current
Unbalanced
Positive, negative and zero system
Measuring accuracy for voltage
Measuring accuracy for current
Measurement accuracy for active energy (kWh,/5 A)
Number of digital inputs
Number of digital outputs
Number of pulse outputs
Current-measuring channels
Temperature input
Memory; minimum and maximum values
Memory size
Interface
Protocol

277 V 480 V 300 V CAT III 24 - 90 V AC (50/60 Hz), 24 - 90 V DC Yes Yes 4 25.6 kHz Yes 10 / 12 5 Yes 1.-40. 1.-40. No Yes 0.2 % 0.2 % Class 0.5S 3 5 5 4 + 2 Yes Yes

277 V
480 V
300 V CAT III
90 - 277 V AC (50/60 Hz), 90 - 250 V DC
Yes
Yes
4
25.6 kHz
Yes
10 / 12
5
Yes
1.40.
1.40.
No
Yes
0.2 %
0.2 %
Class 0.5S
3
5
5
4 + 2
Yes
Yes

Note

Ordering data

Note

Accessories

DIN rail adapters Seal Fixing clamps

Туре	Qty.	Order No.
ENERGY METER 700-PN-24	1	2500870000

PROFINET, Modbus RTU, Modbus TCP/IP, Modbus RTU over Ethernet, SNMP

RS485: 9,6 - 115,2 kbps, Ethernet, Web server

Qty.	Order No.
ENERGY METER BRACKET L1 1	2433060000
ENERGY METER SEAL L96-2 1	2495610000
ENERGY METER FIXING SET 1	2433030000

Туре	Qty.	Order No.
ENERGY METER 700-PN-230	1	2500890000

PROFINET, Modbus RTU, Modbus TCP/IP, Modbus RTU over Ethernet, SNMP

RS485: 9,6 - 115,2 kbps, Ethernet, Web server

	Qty.	Order No.
ENERGY METER BRACKET L1	1	2433060000
ENERGY METER SEAL L96-2	1	2495610000
ENERGY METER FIXING SET	1	2433030000

Note

Technical data

Measurement range, voltage L-N, AC	
Measurement range, voltage L-L, AC	
Surge voltage category	
Voltage supply	
Three-wire system	
Four-wire system	
Quadrants	
Sampling frequency 50/60 Hz	
Continuous measurements	
Effective value from the period (50/60 Hz)	
Measurement result per second	
Residual current measuring	
Harmonics, per order / voltage	
Harmonics, per order / current	
Unbalanced	
Positive, negative and zero system	
Measuring accuracy for voltage	
Measuring accuracy for current	
Measurement accuracy for active energy (kWh,/5 A)	
Number of digital inputs	
Number of digital outputs	
Number of pulse outputs	
Current-measuring channels	
Temperature input	
Memory; minimum and maximum values	
Memory size	
Interface	
Protocol	

Energy Meter 750-24



Energy Meter 750-230



277 V
480 V
300 V CAT III
24 - 90 V AC (50/60 Hz), 24 - 90 V DC
Yes
Yes
4
25.6 kHz
Yes
10 / 12
5
Yes
140.
140.
No
Yes
0.2 %
0.2 %
Class 0.5S
3
5
5
4 + 2
Yes
Yes
256 MB
RS485: 9,6 - 115,2 kbps, Ethernet, Web server/e-mail
Modbus RTU, Modbus-Gateway, Modbus TCP/IP, Modbus RTU over Ethernet, SNMP, BACnet (optional)

277 V	
480 V	
300 V CAT III	
90 - 277 V AC (50/60 Hz), 90 - 250 V DC	
Yes	
Yes	
4	
25.6 kHz	
Yes	
10 / 12	
5	
Yes	
140.	
140.	
No	
Yes	
0.2 %	
0.2 %	
Class 0.5S	
3	
5	
5	
4 + 2	
Yes	
Yes	
256 MB	
RS485: 9,6 - 115,2 kbps, Ethernet, Web server/e-m	nail

Modbus RTU, Modbus-Gateway, Modbus TCP/IP, Modbus RTU over Ethernet, SNMP, BACnet (optional)

Note

Ordering data

...

Note

Accessories

DIN rail adapters Seal Fixing clamps

Туре	Qty.	Order No.
ENERGY METER 750-24	1	2540900000

	Qty.	Order No.
ENERGY METER BRACKET L1	1	2433060000
ENERGY METER SEAL L96-2	1	2495610000
ENERGY METER FIXING SET	1	2433030000

Туре	Qty.	Order No.
ENERGY METER 750-230	1	2540910000

	Qty.	Order No.
ENERGY METER BRACKET L1	1	2433060000
ENERGY METER SEAL L96-2	1	2495610000
ENERGY METER FIXING SET	1	2433030000

Note

Energy Analyser

Energy Analyser

Introduction	C.2
Selection table	C.4
Energy Analyser	C.5

Holistic analysis of the quality of electrical supply networks

Energy analyser for transparency and improved plant availability



The quality of the electrical network is an important parameter for the effectiveness and availability of industrial plants and production facilities. The Energy Analyser 750 is the first step towards increased added value and is particularly suitable for monitoring power quality according to common standards such as EN 50160, IEEE 519 or IEC 61000-2-4.

An increasing number of non-linear consumers and plant components are being used in production facilities. They have an impact on, for example, network frequency, phase shift and the amplitude of phases. This influences the quality of the electrical energy and thus the uptime of the plant. The new Energy Analyser 750 measures all quality parameters of the electrical supply network, from the symmetry to transients and many other parameters besides.

Integrated monitoring of residual current

The built-in residual current measurement highlights creeping increases in residual current before fuses or residual current detectors switch off the section of the system. This maximizes operating times.

Large, clear display

The large QVGA colour display on the device clearly visualises all measurement parameters and allows convenient adjustment of the system parameters.

Top-hat rail devices for simple requirements

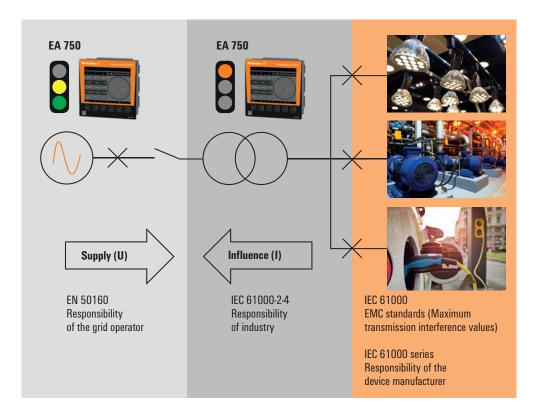
For less comprehensive measurements, we offer the Energy Analyser D550, a very small device for installation on standard DIN rails.



With the Energy Analyser 750, you can carry out comprehensive checks on the quality of the electrical energy in your production facility and initiate optimization steps to maximize the effectiveness and availability of your plant. Important events can be recorded as required.

Continuously monitoring voltage quality

Standard-compliant measurements with the Energy Analyser 750



Power quality - standards and guidelines

Within Europe, EN 50160 is the standard for describing the quality of an electrical power supply. The standard mainly describes the characteristics of the supply voltage at the point of supply to the customer in public low and medium voltage networks under normal operating conditions. EN 50160 applies to the grid voltage, i.e. the voltage measured at the point of connection with the grid. A voltage distortion in the public grid distorts the voltage in the industrial grid, and should therefore be monitored continuously.

The IEC 61000-2-4 standard defines numerical thresholds for industrial and non-public electricity distribution systems with nominal voltages of up to 35 kV. The IEC 61000-2-4 standard should apply to the quality of the voltage at the point of supply to the consumer. That is why it serves as the basis for many product and machinery design standards.

It defines the immunity levels for voltage distortions that machinery and systems in industrial enterprises need to be able to withstand.

If the level is exceeded, this may result in outages that the machinery or system supplier is not liable for. Monitoring in accordance with IEC 61000-2-4 is therefore advisable. New standards such as EN 50600-2-2 for electrical systems in data processing centres also require voltage quality in accordance with EN 50160 and IEC 61000-2-4.

The Energy Analyser 750 facilitates the comprehensive monitoring of specific parameters of voltage quality, and supports compliance with all required standards.

Туре	EAD	550	EA	550	EA 750		
	24	230	24	230	24	230	
Order No.	2425510000	2489780000	2602580000	2425500000	2534160000	2534130000	
Type of mounting		l rail	Front panel mounting		Front panel mounting		
Display	U	CD	Gra	phic	Colour graphic		
Technical Characteristics							
Measuring range, Voltage L-N, AC	27	7 V	417.V		347 V		
(without transducer)	21		417 V		34/ V		
Measuring range, Voltage L-L, AC	48	nv	720 V /3 wire 600 V/		600 V		
(without transducer)	40	5 V	720 V (3 wire 600 V)		600 V		
Overvoltage category	300 V		600 V CAT III		600 V		
Power supply voltage	20 - 50 V AC;	95 - 240 V AC;	48 - 110 V AC,	95 - 240 V AC;	48 - 110 V AC;	95 - 240 V AC	
	20 - 70 V DC	135 - 340 V DC	24 - 150 V DC	80 - 300 V DC	24 - 150 V DC	80 - 300 V DC	
Three wire	•		•		•		
Four wire	•		•		•		
Sampling frequency 50/60 Hz	20 kHz		20 kHz		25.6 kHz		
Measurement points per second	20,000		20,000		25,600		
Measurement results per second	5		5		5		
Measuring accuracy for voltage	0.20 %		0.10 %		0.10 %		
Measuring accuracy for current	0.25 %		0.20 %		0.10 %		
Number of digital inputs	2		2		2		
Number of digital outputs	2	2		2		2	
Number of pulse outputs	2	2		2		2	
Current measurement channel	4	4		4+2		4+2	
Temperature input	1		1		1		
Memory size	128 MB		256 MB		256 MB		
Number of memory values	5.00)0 k	10.000 k		10.000 k		
Interfaces							
RS232	•		-		-		
RS485	•		•		•		
Profibus DP	-		•		•		
M-Bus	-				-		
Ethernet		•	•		•		
Webserver / E-Mail	• / •		• / •		• / •		
Protocols							
Modbus RTU	•		•		•		
Modbus-Gateway	•		•		•		
Profibus DP VO	-		•		•		
Modbus TCP/IP, Modbus RTU over Ethernet, SNMP	•		•		•		
BACnet (optional)	•		•		•		

Energy analysis instruments

Energy Analyser D550-24



Energy Analyser D550-230



Technical data

Measurement range, voltage L-N, AC
Measurement range, voltage L-L, AC
Surge voltage category
Voltage supply
Three-wire system
Four-wire system
Quadrants
Sampling frequency 50/60 Hz
Continuous measurements
Effective value from the period (50/60 Hz)
Measurement result per second
Residual current measuring
Harmonics, per order / voltage
Harmonics, per order / current
Unbalanced
Positive, negative and zero system
Measuring accuracy for voltage
Measuring accuracy for current
Measurement accuracy for active energy (kWh,/5 A)
Number of digital inputs
Number of digital outputs
Number of pulse outputs
Current-measuring channels
Temperature input
Memory; minimum and maximum values
Memory size
Interface

Protocol

Note

Ordering data

Note

277 V
480 V
300 V CAT III
20 50 V AC ±10%, 20 70 V DC ±10%
Yes
Yes
4
20 kHz
Yes
10 / 12
5
No
140.
140.
Yes
Yes
0.2 %
0.25 %
Class 0.5S
2
2
2
4
Yes
Yes
128 MB
RS232: 9.6 - 115.2 kbps, RS485: 9.6 - 921.6 kbps, Ethernet, W
server/e-mail
Modbus RTI1 Modbus-Gateway Modbus TCP/IP Modbus RTI1 over

Modbus RTU, Modbus-Gateway, Modbus TCP/IP, Modbus RTU over Ethernet, SNMP, BACnet (optional)

Туре	Qty.	Order No.
ENERGY ANALYSER D550-24	1	2489780000

277 V	
480 V	
300 V CAT III	
95 - 240 V AC, 135 - 340 V DC	
Yes	
Yes	
4	
20 kHz	
Yes	
10 / 12	
5	
No	
140.	
140.	
Yes	
Yes	
0.2 %	
0.25 %	
Class 0.5S	
2	
2	
2	
4	
Yes	
Yes	
128 MB	
RS232: 9.6 - 115.2 kbps, RS485: 9.6 - 921	6 kbps, Ethernet, Web
server/e-mail	

Modbus RTU, Modbus-Gateway, Modbus TCP/IP, Modbus RTU over Ethernet, SNMP, BACnet (optional)

Туре	Qty.	Order No.
ENERGY ANALYSER D550	1	2425510000

C

Energy analysis instruments

C

Energy Analyser 550-24



Energy Analyser 550-230



Technical data

Me	asurement range, voltage L-N, AC
Me	asurement range, voltage L-L, AC
Su	rge voltage category
Vol	tage supply
Th	ree-wire system
Fou	ır-wire system
Qu	adrants
Sa	mpling frequency 50/60 Hz
Co	ntinuous measurements
Eff	ective value from the period (50/60 Hz)
Me	asurement result per second
Re	sidual current measuring
Ha	rmonics, per order / voltage
Ha	rmonics, per order / current
Un	balanced
Po	sitive, negative and zero system
Me	easuring accuracy for voltage
Me	easuring accuracy for current
Me	asurement accuracy for active energy (kWh,/5 A)
Nu	mber of digital inputs
Nu	mber of digital outputs
Nu	mber of pulse outputs
Cu	rrent-measuring channels
Ter	nperature input
Me	mory; minimum and maximum values
Me	emory size
Int	erface

Protocol

Note

Ordering data

Note

Accessories

DIN rail adapters Seal

417 V
720 V
600 V CAT III
48110 V AC, 24150 V DC
Yes
Yes
4
20 kHz
Yes
10 / 12
5
Yes
163.
163.
Yes
Yes
0.1 %
0.2 %
Class 0.2S
2
2
2
4 + 2
Yes
Yes
256 MB
RS485: 9.6 - 921.6 kbps, Profibus DP, Ethernet, Web server/e-mail

Modbus RTU, Modbus-Gateway, Modbus TCP/IP, Modbus RTU over Ethernet, SNMP, Profibus DP VO, BACnet (optional)

Туре	Qty.	Order No.
ENERGY ANALYSER 550-24	1	2602580000

	Qty.	Order No.
ENERGY METER BRACKET B1	1	2433040000
ENERGY METER SEAL L144	1	2495630000

41	7 V
72	20 V
60	O V CAT III
95	5 - 240 V AC, 80 - 300 V DC
Ye	s
Ye	S
4	
20) kHz
Ye	S
10) / 12
5	
Ye	S
1	63.
1	63.
Ye	S
Ye	S
0.	1 %
0.:	2 %
Cla	ass 0.2S
2	
2	
2	
4	+ 2
Ye	S
Ye	S
25	6 MB

Modbus RTU, Modbus-Gateway, Modbus TCP/IP, Modbus RTU over Ethernet, SNMP, Profibus DP VO, BACnet (optional)

Туре	Qty.	Order No.
ENERGY ANALYSER 550	1	2425500000

	Qty.	Order No.
ENERGY METER BRACKET B1	1	2433040000
ENERGY METER SEAL L144	1	2495630000

Note

Energy analysis instruments

Energy Analyser 750-24





Energy Analyser 750-230

Technical data

Measurement range, voltage L-N, AC
Measurement range, voltage L-L, AC
Surge voltage category
Voltage supply
Three-wire system
Four-wire system
Quadrants
Sampling frequency 50/60 Hz
Continuous measurements
Effective value from the period (50/60 Hz)
Measurement result per second
Residual current measuring
Harmonics, per order / voltage
Harmonics, per order / current
Unbalanced
Positive, negative and zero system
Measuring accuracy for voltage
Measuring accuracy for current
Measurement accuracy for active energy (kWh,/5 A)
Number of digital inputs
Number of digital outputs
Number of pulse outputs
Current-measuring channels
Temperature input
Memory; minimum and maximum values
Memory size
Interface

Protocol

Note

Ordering data

Note

Accessories

DIN rail adapters Seal

347 V
600 V
600 V CAT III
48110 V AC, 24150 V DC
Yes
Yes
4
25.6 kHz
Yes
10 / 12
5
Yes
163.
163.
Yes
Yes
0.1 %
0.1 %
Class 0.2S
2
2
2
4 + 2
Yes
Yes
256 MB
DC40E-0.0 001 Cilling Destitue DD Educated Web server/serveil

RS485: 9.6 - 921.6 kbps, Profibus DP, Ethernet, Web server/e-mail

Modbus RTU, Modbus-Gateway, Modbus TCP/IP, Modbus RTU over Ethernet, SNMP, Profibus DP VO, BACnet (optional)

Туре	Qty.	Order No.
ENERGY ANALYSER 750-24	1	2534160000

	Qty.	Order No.
ENERGY METER BRACKET B1	1	2433040000
ENERGY METER SEAL L144	1	2495630000

347 V	
600 V	
600 V CAT III	
95 - 240 V AC, 80 - 300 V DC	
Yes	
Yes	
4	
25.6 kHz	
Yes	
10 / 12	
5	
Yes	
163.	
163.	
Yes	
Yes	
0.1 %	
0.1 %	
Class 0.2S	
2	
2	
2	
4 + 2	
Yes	
Yes	
256 MB	
RS485: 9.6 - 921.6 kbps, Ethernet, Profibus DP, Web serve	er/e-mail

Modbus RTU, Modbus-Gateway, Modbus TCP/IP, Modbus RTU over Ethernet, SNMP, Profibus DP VO, BACnet (optional)

Туре	Qty.	Order No.
ENERGY ANALYSER 750-230	1	2534130000

	Qty.	Order No.
ENERGY METER BRACKET B1	1	2433040000
ENERGY METER SEAL L144	1	2495630000

- N	n	t	ſ
	U	5	5

C

Energy Logger

Energy Logger

Introduction	D.2
Energy Logger	D.3

Provide measurement data efficiently and conveniently

Our energy logger collects consumption and process data



Integrated temperature measurement

The Energy Logger D550 has an input for temperature measurement. This saves costs in setting up an infrastructure for the measurement of process parameters

Integrated ModBus interface

As well as the consumption data of simple measuring devices, measurement values from devices with a ModBus interface can also be forwarded over a network.

Integrated data memory

Data can be saved long-term in the device's built-in 32 MB memory.

As well as the consumption of electrical energy, the consumption of, for example, compressed air, water and gas can also be optimised. Energy Logger D550 enables the provision of cross-plant measurement data in the network.

Measuring devices with a simple S0 interface are widespread. But they cannot transfer measured values direct into the internal network. Therefore, a gateway is required for each measuring device. The Energy Logger D550 can collect and save impulse signals from up to 15 measurement devices and forwards them via a LAN interface. This particularly compact Energy Logger D550 is the costeffective solution to simplify and accelerate the collecting and forwarding of consumption and process data.

Energy Logger

Energy Logger D550



Technical data

Surge voltage category	300 V CAT III		
Voltage supply	20 - 250 V AC, 20 - 300 V DC20 - 30	O V DC	
Operating-hours counter	Yes		
Number of digital inputs	15		
Number of digital outputs	3		
Memory size	32 MB		
Software	ecoExplorer go®		
Interfaces			
Interface	RS485: 9,6 - 115,2 kbps, Ethernet		
Protocol			
Protocol	Modbus RTU, Modbus-Gateway, Mod Ethernet, SNMP	bus TCP/IP, N	Aodbus RTU over
Note			
Ordering data			
-	Туре	Qty.	Order No.
	Type ENERGY LOGGER D550	Qty. 1	Order No. 2425520000
Note		Qty. 1	
Note		Qty. 1	
		Qty. 1	
Note Accessories		Qty. 1 Qty.	

Current transformer

Current transformer

Introduction	E.2
Cable-type current transformer	E.4
Mini current transformer	E.11
Plug-on current transformer	E.12
Difference current transformer (Residual Current Monitoring, RCM)	E.14
Rogowski current transformer system	E.18
Instrument transformer wiring	E.21

Compatibility for different measurement environments Current transformers from Weidmüller

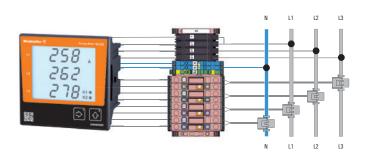
Current transformers are mainly used where currents cannot be measured directly. They are special forms of transformers which translate the primary current into a (usually) smaller, standardized secondary current of a certain accuracy (class) and galvanically separate the primary and secondary circuits. The physically induced saturation phenomenon of the core material additionally ensures protection of the secondary circuit against excessive currents.

A basic distinction can be made between single-conductor current transformers and wound current transformers. The most common representative of the single-conductor current transformers is the clip-on current transformer. This is plugged onto the current-carrying conductor and thus forms a transformer with a primary winding or with secondary windings corresponding to the respective transmission ratio.

Proper selection of the primary rated current is important for measurement accuracy. A ratio directly above the measured or defined current (In) is recommended - for example: In = 1.154 A, selected transformer ratio = 1.250/5. The rated current can also be defined based on the following considerations:

- Transformer rated current multiplied by approximately 1.1 (next transformer size)
- Fuse rated current (transformer rated current) of the measured system part (LV, UV)
- Actual rated current multiplied by 1.2 (recommended if the actual current is significantly lower than the transformer rating or the fuse rating)

Overdimensioning of the current transformer must be avoided, otherwise the measurement accuracy will drop considerably in some cases for relatively small currents (based on the primary rated current).



Overview of current converters





Туре		
Technical information	Plug-on current transformer	Rod current transformer
Application	New systems	New systems
Coil	Closed	Closed
Installation	Round cable, copper busbar, terminal rail, mounting plate	Round cable (insulated)
Primary current	60 A2,500 A	32 A64 A
Secondary current	5 A	1 A
Accuracy class	0.5 oder 1	1
Ambient temperature	-5+50 °C	-5+50 °C
Standards	EN 61869-2	IEC 61869-2

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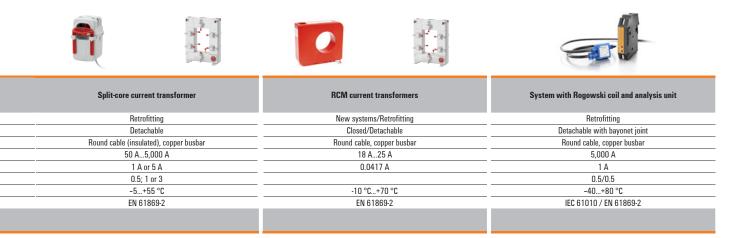
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Rated current

The rated or formerly nominal current is the value of the value of the primary and secondary current indicated on the rating plate and secondary current (primary rated current, secondary rated current) for which the current transformer is rated. Standardized rated currents are - except for classes 0.2 S and 0.5 S - 10, 12.5, 15, 20, 25, 30, 40, 50, 60 and 75 A and their decimal multiples and parts thereof. Standardized secondary currents are 1 and 5 A.

Translation ratio

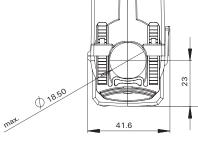
The rated ratio is the ratio of the primary rated current to the secondary rated current and is indicated as an unabbreviated fraction on the rating plate. Most commonly, x / 5 A transformers are used, because most measuring instruments have the higher accuracy class at 5 A. For technical and above all economic reasons, x /1 A converters are recommended for long measuring cable lengths. The line losses are only 4 percent for 1 A converters compared to 5 A converters. However, the measuring devices here often have the lower measuring accuracy.

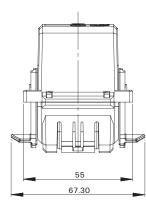


The KCMA series cable-type current transformer is mainly used for retrofitting in existing systems. Due to its compact design with dimensions of 41.6 mm x 64.5 mm x 68 mm, it is especially suited for installation in hard-to-reach places or use in locations with restricted dimensional freedom. The KCMA-18 registers primary currents of 50 A to 250 A and transforms these into up to 5 A on the secondary side. To install the transformer, the locking mechanism is opened, the transformer is positioned around the primary conductor and is then closed again with an audible click. Once the secondary cables are successfully connected, the measuring apparatus is immediately ready for operation.

64.50







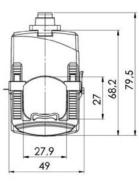
Order No.	Туре	Primary current	Secondary current max.	Tolerance class	Load	Round conductor	Qty.
1482020000	KCMA-18-50-1A-1VA-3	50 A	1 A	3	1 VA	18.50 mm	1
2420780000	KCMA-18-75-1A-1VA-3	75 A	1 A	3	1 VA	18.50 mm	1
1482010000	KCMA-18-100-1A-1,25VA-3	100 A	1 A	3	1.25 VA	18.50 mm	1
2752980000	KCMA-18-125-1A-1,5VA-3	125 A	1 A	3	1.5 VA	18.50 mm	1
2420770000	KCMA-18-150-1A-2VA-3	150 A	1 A	3	2 VA	18.50 mm	1
2420760000	KCMA-18-200-1A-3VA-3	200 A	1 A	3	3 VA	18.50 mm	1
2420750000	KCMA-18-250-1A-4VA-3	250 A	1 A	3	4 VA	18.50 mm	1
2752990000	KCMA-18-100-1A-0.3VA-1	100 A	1 A	1	0.3 VA	18.50 mm	1
2753000000	KCMA-18-125-1A-0.5VA-1	125 A	1 A	1	0.5 VA	18.50 mm	1
2753010000	KCMA-18-150-1A-1VA-1	150 A	1 A	1	1 VA	18.50 mm	1
2753020000	KCMA-18-200-1A-1.5VA-1	200 A	1 A	1	1.5 VA	18.50 mm	1
1482000000	KCMA-18-250-1A-1,5VA-1	250 A	1 A	1	1.5 VA	18.50 mm	1
2753030000	KCMA-18-150-5A-1VA-1	150 A	5 A	1	1 VA	18.50 mm	1
2753040000	KCMA-18-200-5A-1,5VA-1	200 A	5 A	1	1.5 VA	18.50 mm	1
2753050000	KCMA-18-250-5A-1VA-0.5	250 A	5 A	0,5	1 VA	18.50 mm	1
Note							

Ε

Cable-type current transformer

The KCMA-28 series cable-type current transformer is mainly used for retrofitting in existing systems. Due to its compact design with dimensions of 49 mm x 59 mm x 79.5 mm, it is especially suited for installation in hard-to-reach places or use in locations with restricted dimensional freedom. The KCMA-28 registers primary currents of 200 A to 500 A and transforms these into up to 5 A on the secondary side. To install the transformer, the locking mechanism is opened, the transformer is positioned around the primary conductor and is then closed again with an audible click. Once the secondary cables are successfully connected, the measuring apparatus is immediately ready for operation.







Ordering data

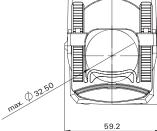
Order No.	Туре	Primary current	Secondary current max.	Tolerance class	Load	Round conductor	Qty.
2753060000	KCMA-28-200-1A-0.3VA-1	200 A	1 A	1	0.3 VA	27.00 mm	1
2753070000	KCMA-28-250-1A-1VA-1	250 A	1 A	1	1 VA	27.00 mm	1
2753080000	KCMA-28-300-1A-1.5VA-1	300 A	1 A	1	1.5 VA	27.00 mm	1
2753090000	KCMA-28-400-1A-2.5VA-1	400 A	1 A	1	2.5 VA	27.00 mm	1
2753100000	KCMA-28-500-1A-1VA-0.5	500 A	1 A	0,5	1 VA	27.00 mm	1
2753110000	KCMA-28-250-5A-1VA-1	250 A	5 A	1	1 VA	27.00 mm	1
2753120000	KCMA-28-300-5A-1.5VA-1	300 A	5 A	1	1.5 VA	27.00 mm	1
2753130000	KCMA-28-400-5A-2.5VA-1	400 A	5 A	1	2.5 VA	27.00 mm	1
2753140000	KCMA-28-500-5A-3VA-1	500 A	5 A	1	3 VA	27.00 mm	1
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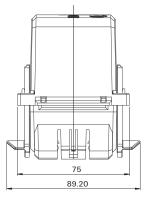
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The KCMA-32 series cable-type current transformer is mainly used for retrofitting in existing systems. Due to its compact design with dimensions of 59.2 mm x 96.4 mm x 90 mm, it is especially suited for installation in hard-to-reach places or use in locations with restricted dimensional freedom. The KCMA-32 registers primary currents of 400 A to 600 A and transforms these into up to 5 A on the secondary side. To install the transformer, the locking mechanism is opened, the transformer is positioned around the primary conductor and is then closed again with an audible click. Once the secondary cables are successfully connected, the measuring apparatus is immediately ready for operation.

96.4



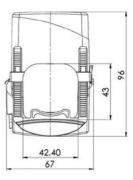


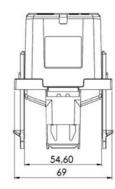


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Order No.	Туре	Primary current	Secondary current max.	Tolerance class	Load	Round conductor	Qty.
1481990000	KCMA-32-400-1A-5VA-1	400 A	1 A	1	5 VA	32.50 mm	1
1481980000	KCMA-32-600-1A-5VA-1	600 A	1 A	1	5 VA	32.50 mm	1
2420730000	KCMA-32-400-5A-5VA-1	400 A	5 A	1	5 VA	32.50 mm	1
2420740000	KCMA-32-500-5A-5VA-1	500 A	5 A	1	5 VA	32.50 mm	1
2420720000	KCMA-32-600-5A-5VA-1	600 A	5 A	1	5 VA	32.50 mm	1
Note							

The KCMA-42 series cable-type current transformer is mainly used for retrofitting in existing systems. As a result of its compact design with dimensions of 72.2 mm x 120.6 mm x 98.1 mm, it is especially suited for installation in hard-to-reach places or use in locations with restricted dimensional freedom. The KCMA-42 registers primary currents of 250 A to 1000 A and transforms these into up to 5 A on the secondary side. To install the transformer, the locking mechanism is opened, the transformer is positioned around the primary conductor and is then closed again with an audible click. Once the secondary cables are successfully connected, the measuring apparatus is immediately ready for operation.



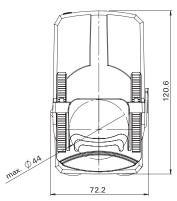


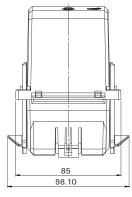


Order No.	Туре	Primary current	Secondary current max.	Tolerance class	Load	Round conductor	Qty.
2753150000	KCMA-42-250-1A-2.5VA-1	250 A	1 A	1	2.5 VA	42.00 mm	1
2753160000	KCMA-42-300-1A-2.5VA-1	300 A	1 A	1	2.5 VA	42.00 mm	1
2753170000	KCMA-42-400-1A-2.5VA-0.5	400 A	1 A	0,5	2.5 VA	42.00 mm	1
2753180000	KCMA-42-500-1A-2.5VA-0.5	500 A	1 A	0,5	2.5 VA	42.00 mm	1
2753190000	KCMA-42-600-1A-2.5VA-0.5	600 A	1 A	0,5	2.5 VA	42.00 mm	1
2753200000	KCMA-42-750-1A-2.5VA-0.5	750 A	1 A	0,5	2.5 VA	42.00 mm	1
2753210000	KCMA-42-800-1A-2.5VA-0.5	800 A	1 A	0,5	2.5 VA	42.00 mm	1
2753220000	KCMA-42-1000-1A-2.5VA-0.5	1000 A	1 A	0,5	2.5 VA	42.00 mm	1
2753230000	KCMA-42-300-5A-2.5VA-1	300 A	5 A	1	2.5 VA	42.00 mm	1
2753240000	KCMA-42-400-5A-5VA-1	400 A	5 A	1	5 VA	42.00 mm	1
2753250000	KCMA-42-500-5A-5VA-1	500 A	5 A	1	5 VA	42.00 mm	1
2753260000	KCMA-42-600-5A-2.5VA-0.5	600 A	5 A	0,5	2.5 VA	42.00 mm	1
2753270000	KCMA-42-750-5A-2.5VA-0.5	750 A	5 A	0,5	2.5 VA	42.00 mm	1
2753280000	KCMA-42-800-5A-2.5VA-0.5	800 A	5 A	0,5	2.5 VA	42.00 mm	1
2753290000	KCMA-42-1000-5A-2.5VA-0.5	1000 A	5 A	0,5	2.5 VA	42.00 mm	1
Vote							

The KCMA-44 series cable-type current transformer is mainly used for retrofitting in existing systems. As a result of its compact design with dimensions of 72.2 mm x 120.6 mm x 98 mm, it is especially suited for installation in hard-to-reach places or use in locations with restricted dimensional freedom. The KCMA-44 registers primary currents of 750 A to 1000 A and transforms these into up to 5 A on the secondary side. To install the transformer, the locking mechanism is opened, the transformer is positioned around the primary conductor and is then closed again with an audible click. Once the secondary cables are successfully connected, the measuring apparatus is immediately ready for operation.



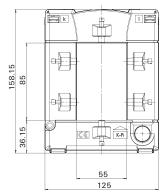


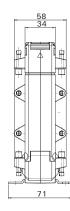


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Order No.	Туре	Primary current	Secondary current max.	Tolerance class	Load	Round conductor	Qty.
2420710000	KCMA-44-750-5A-5VA-1	750 A	5 A	1	5 VA	44.00 mm	1
2437370000	KCMA-44-800-5A-5VA-1	800 A	5 A	1	5 VA	44.00 mm	1
2437400000	KCMA-44-1000-5A-5VA-1	1000 A	5 A	1	5 VA	44.00 mm	1
Note							

The KCMA-5 series cable-type current transformer with its separable measuring core allows it to be retrofitted in existing systems without disconnecting the primary conductor. Thanks to the practical integrated interlock system, the transformer can be positioned around the primary conductor and then closed again with an audible click. The KCMA-5 registers primary currents of 250 A to 1000 A and transforms these into currents of up to 5 A on the secondary side.



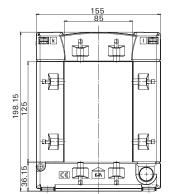


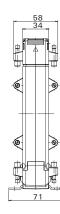


Order No.	Туре	Primary current	Secondary current max.	Tolerance class	Load	Round conductor	Rail	Qty.
2753360000	KCMA 5-250-5A-1.5VA-1	250 A	5 A	1	1.5 VA	55.00 mm	50 x 80 mm	1
2753370000	KCMA 5-400-5A-1VA-0.5	400 A	5 A	0,5	1 VA	55.00 mm	50 x 80 mm	1
2753380000	KCMA 5-500-5A-2.5VA-0.5	500 A	5 A	0,5	2.5 VA	55.00 mm	50 x 80 mm	1
2753390000	KCMA 5-600-5A-2.5VA-0.5	600 A	5 A	0,5	2.5 VA	55.00 mm	50 x 80 mm	1
2753400000	KCMA 5-1000-5A-5VA-0.5	1000 A	5 A	0,5	5 VA	55.00 mm	50 x 80 mm	1
Note								

The KCMA-8 series cable-type current transformer with its separable measuring core allows it to be retrofitted in existing systems without disconnecting the primary conductor. Thanks to the practical integrated interlock system, the transformer can be positioned around the primary conductor and then closed again with an audible click. The KCMA-8 registers primary currents of 250 A to 5000 A and transforms these into currents of up to 5 A on the secondary side.



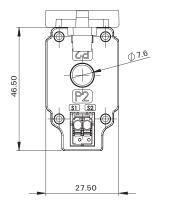


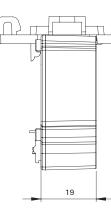


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Order No.	Туре	Primary current	Secondary current max.	Tolerance class	Load	Round conductor	Rail	Qty.
2728090000	KCMA-8-250-5A-1.5VA1	250 A	5 A	1	1.5 VA	80.00 mm	80 x 120 mm	1
2728100000	KCMA-8-500-5A-5VA1	500 A	5 A	1	5 VA	80.00 mm	80 x 120 mm	1
2728110000	KCMA-8-750-5A-2VA1	750 A	5 A	1	2 VA	80.00 mm	80 x 120 mm	1
2728130000	KCMA-8-1000-5A-10VA1	1000 A	5 A	1	10 VA	80.00 mm	80 x 120 mm	1
2728140000	KCMA-8-1200-5A-10VA1	1200 A	5 A	1	10 VA	80.00 mm	80 x 120 mm	1
2728150000	KCMA-8-1500-5A-15VA1	1500 A	5 A	1	15 VA	80.00 mm	80 x 120 mm	1
2728160000	KCMA-8-2000-5A-15VA1	2000 A	5 A	1	15 VA	80.00 mm	80 x 120 mm	1
2728170000	KCMA-8-2500-5A-15VA1	2500 A	5 A	1	15 VA	80.00 mm	80 x 120 mm	1
2728180000	KCMA-8-3000-5A-15VA1	3000 A	5 A	1	15 VA	80.00 mm	80 x 120 mm	1
2728190000	KCMA-8-4000-5A-15VA1	4000 A	5 A	1	15 VA	80.00 mm	80 x 120 mm	1
2728210000	KCMA-8-5000-5A-15VA1	5000 A	5 A	1	15 VA	80.00 mm	80 x 120 mm	1
2753410000	KCMA-8-600-5A-2.5VA-0.5	600 A	5 A	0,5	2.5 VA	80.00 mm	80 x 120 mm	1
2753420000	KCMA-8-800-5A-2.5VA-0.5	800 A	5 A	0,5	2.5 VA	80.00 mm	80 x 120 mm	1
2753430000	KCMA-8-1000-5A-5VA-0.5	1000 A	5 A	0,5	5 VA	80.00 mm	80 x 120 mm	1
2753450000	KCMA-8-1200-5A-5VA-0.5	1200 A	5 A	0,5	5 VA	80.00 mm	80 x 120 mm	1
Note								

The CMA-CTM 7 series mini current transformer is an inductive current transformer designed according to the transformer principle for circular primary conductors. The CMA-CTM 7 series current transformers are maintenance-free and are designed for primary currents of 32 A to 64 A. These are transformed into a current of up to 1 A on the secondary side.





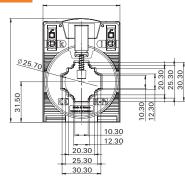


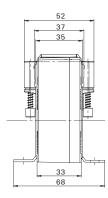
Order No.	Туре	Primary current	Secondary current max.	Tolerance class	Load	Round conductor	Qty.
2525150000	CMA-CTM-7-32-1A-0.2VA-1	32 A	1 A	1	0.2 VA	7.60 mm	1
2556030000	CMA-CTM-7-50-1A-0.4VA-1	50 A	1 A	1	0.4 VA	7.60 mm	1
2556010000	CMA-CTM-7-64-1A-0.5VA-1	64 A	1 A	1	0.5 VA	7.60 mm	1
Note							

Plug-on current transformer

The CMA-31 series current transformer registers primary currents of 60 A to 2.500 A and transforms these into up to 5 A on the secondary side. The transformer is equipped with a maintenance-free, spring-balanced cage clamp and is especially suitable for installation on current bars and cables of new systems.

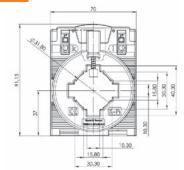




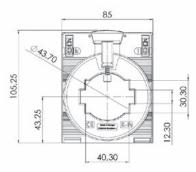


Order No.	Туре	Primary current	Secondary current max.	Tolerance class	Load	Round conductor	Rail	Qty.
2421380000	CMA-31-60-5A-1,25VA-1	60 A	5 A	1	1.25 VA	25.70 mm	20 x 20 mm, 25 x 12 mm, 30 x 10 mm	1
1482040000	CMA-31-75-5A-2,5VA-1	75 A	5 A	1	2.5 VA	25.70 mm	20 x 20 mm, 25 x 12 mm, 30 x 10 mm	1
1482030000	CMA-31-100-5A-2,5VA-1	100 A	5 A	1	2.5 VA	25.70 mm	20 x 20 mm, 25 x 12 mm, 30 x 10 mm	1
2420960000	CMA-31-150-5A-5VA-1	150 A	5 A	1	5 VA	25.70 mm	20 x 20 mm, 25 x 12 mm, 30 x 10 mm	1
2420950000	CMA-31-200-5A-5VA-1	200 A	5 A	1	5 VA	25.70 mm	20 x 20 mm, 25 x 12 mm, 30 x 10 mm	1
2420940000	CMA-31-250-5A-5VA-1	250 A	5 A	1	5 VA	25.70 mm	20 x 20 mm, 25 x 12 mm, 30 x 10 mm	1
2420920000	CMA-31-400-5A-5VA-1	400 A	5 A	1	5 VA	25.70 mm	20 x 20 mm, 25 x 12 mm, 30 x 10 mm	1
2420910000	CMA-31-500-5A-5VA-1	500 A	5 A	1	5 VA	25.70 mm	20 x 20 mm, 25 x 12 mm, 30 x 10 mm	1
2420900000	CMA-31-600-5A-5VA-1	600 A	5 A	1	5 VA	25.70 mm	20 x 20 mm, 25 x 12 mm, 30 x 10 mm	1
2420890000	CMA-31-750-5A-5VA-1	750 A	5 A	1	5 VA	25.70 mm	20 x 20 mm, 25 x 12 mm, 30 x 10 mm	1
2680150000	CMA-41-1000-5A-5VA-1	1000 A	5 A	1	5 VA	31.00 mm	30 x 15 mm, 40 x 10 mm	1
2680160000	CMA-51-1250-5A-5VA-1	1250 A	5 A	1	5 VA	43.00 mm	40 x 30 mm, 50 x 12 mm	1
2680170000	CMA-61-1500-5A-5VA-1	1500 A	5 A	1	5 VA	43.00 mm	50 x 30 mm, 63 x 10 mm	1
2680180000	CMA-81-2000-5A-10VA-1	2000 A	5 A	1	10 VA	54.00 mm	80 x 10 mm, 60 x 30 mm	1
2680190000	CMA-101-2500-5A-10VA-1	2500 A	5 A	1	10 VA	70.00 mm	100 x 10 mm, 80 x 30 mm	1
2680200000	CMA-31-125-5A-2,5VA-0,5	125 A	5 A	0,5	2.5 VA	25.70 mm	30 x 10 mm, 25 x 12 mm, 20 x 20 mm	1
2421030000	CMA-31-150-5A-2,5VA-0,5	150 A	5 A	0,5	2.5 VA	25.70 mm	20 x 20 mm, 25 x 12 mm, 30 x 10 mm	1
2421020000	CMA-31-200-5A-2,5VA-0,5	200 A	5 A	0,5	2.5 VA	25.70 mm	20 x 20 mm, 25 x 12 mm, 30 x 10 mm	1
1482050000	CMA-31-250-5A-5VA-0,5	250 A	5 A	0,5	5 VA	25.70 mm	20 x 20 mm, 25 x 12 mm, 30 x 10 mm	1
2420990000	CMA-31-300-5A-5VA-0,5	300 A	5 A	0,5	5 VA	25.70 mm	20 x 20 mm, 25 x 12 mm, 30 x 10 mm	1
2420980000	CMA-31-400-5A-5VA-0,5	400 A	5 A	0,5	5 VA	25.70 mm	20 x 20 mm, 25 x 12 mm, 30 x 10 mm	1
1482070000	CMA-31-500-5A-5VA-0,5	500 A	5 A	0,5	5 VA	25.70 mm	20 x 20 mm, 25 x 12 mm, 30 x 10 mm	1
2420970000	CMA-31-600-5A-5VA-0,5	600 A	5 A	0,5	5 VA	25.70 mm	20 x 20 mm, 25 x 12 mm, 30 x 10 mm	1
1482080000	CMA-31-750-5A-5VA-0,5	750 A	5 A	0,5	5 VA	25.70 mm	20 x 20 mm, 25 x 12 mm, 30 x 10 mm	1
2680210000	CMA-41-1000-5A-5VA-0,5	1000 A	5 A	0,5	5 VA	31.00 mm	30 x 15 mm, 40 x 10 mm	1
2680220000	CMA-51-1250-5A-5VA-0,5	1250 A	5 A	0,5	5 VA	43.00 mm	50 x 12 mm, 40 x 30 mm	1
2680230000	CMA-61-1500-5A-5VA-0,5	1500 A	5 A	0,5	5 VA	43.00 mm	50 x 30 mm, 63 x 10 mm	1
2680240000	CMA-81-2000-5A-10VA-0,5	2000 A	5 A	0,5	10 VA	54.00 mm	60 x 30 mm, 80 x 10 mm	1
2680250000	CMA-101-2500-5A-10VA-0.5	2500 A	5 A	0,5	10 VA	70.00 mm	100 x 10 mm, 80 x 30 mm	1
Note	For additional articles and inform	ation, refer to						
	catalog.weidmueller.com							

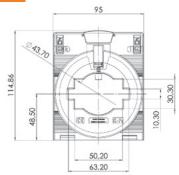
CMA-41



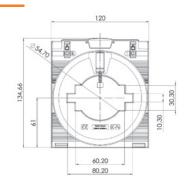
CMA-51



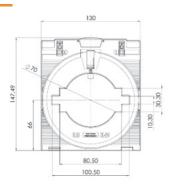


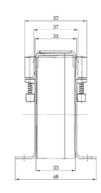


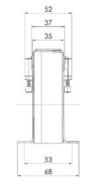
CMA-81



CMA-101













Ε

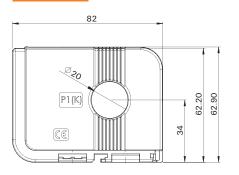
Difference current transformer (Residual Current Monitoring, RCM)

The current transformers of the CMA-RCM series are current transformers for RCM measurement on circular primary conductors. Current transformers of this series are maintenance-free and designed for the detection of residual currents of 25 A.

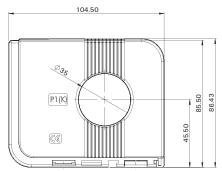


	-			
Order No.	Туре	Primary current	Round conductor	Qty.
2603420000	CMA-RCM-DACT-20	25 A	20.00 mm	1
2603430000	CMA-RCM-DACT-35	25 A	35.00 mm	1
2603440000	CMA-RCM-DACT-60	25 A	60.00 mm	1
2603450000	CMA-RCM-DACT-120	25 A	120.00 mm	1
Note				

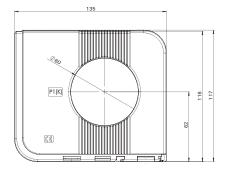
CMA-RCM-DACT-20



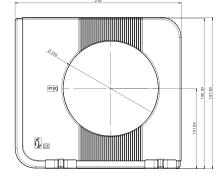
CMA-RCM-DACT-35

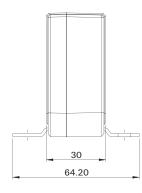


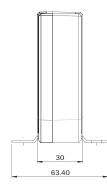
CMA-RCM-DACT-60

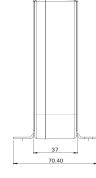


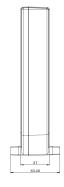
CMA-RCM-DACT-120









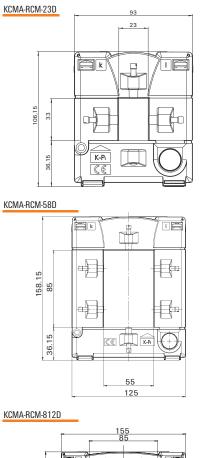


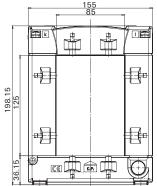
Difference current transformer (Residual Current Monitoring, RCM)

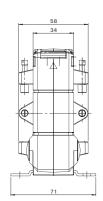
The KCMA-RCM series cable conversion current transformer is mainly used to retrofit an RCM measurement into existing systems. The KCMA-RCM measures residual currents of up to 25 A. During installation, the locking mechanism of the transformer is opened, the transformer is placed around the primary conductor and audibly re-engaged. After successful connection of the secondary conductors, the measurement setup is immediately ready for operation.

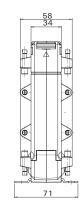


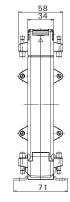
er aering ante				
Order No.	Туре	Primary current	Round conductor	Qty.
2656270000	KCMA-RCM-23D	18 A	20.00 mm	1
2656280000	KCMA-RCM-58D	18 A	50.00 mm	1
2656290000	KCMA-RCM-812D	18 A	80.00 mm	1
Note				











Measure energy consumption easily, safely and flexibly Rogowski current transformer system for easy retrofitting

Growing environmental requirements are forcing companies to make the energy consumption of their existing machinery and equipment transparent. Rogowski coils are used for reliable measurement of AC currents and can be quickly and easily integrated into existing environments.

In addition to conventional current transformers, Rogowski coils can also be used for current measurement. Due to the lack of an iron core, non-linear influences of the iron core are eliminated. Rogowski coils can be easily applied and removed without breaking the circuit, i.e. without major installation work.

In contrast to current transformers, high short-circuit currents in the power distribution do not cause high losses in Rogowski coils. There can also be no saturation or remanence effects that are detrimental to the measurement. Likewise, no dangerous voltages can be generated in open circuit operation. Our Rogowski coils can be integrated either on busbars or power cables. They are available

for three diameters between 70 and 175 mm. Their output signal is fed to a measuring transducer. This measures alternating currents or a voltage signal and can - depending on the version - output a standardized standard signal (1 A) or a signal selectable from four V or mA ranges. Twelve values between 100 A and 5,000 A can be selected for the input measuring range.

Your special advantage:

- Evaluation unit for Rogowski coils
- Linearity error below 0.1%
- 12 different current ranges from 100 to 5000A selectable
- Selection of different outputs (RCMC-5000-A0-P only): 4 true RMS outputs: 0-20 mA, 4-20 mA, 0-5 V & 010 V and 2 instantaneous voltage outputs: 0-225 mV and 0-333 mV or 1 A output



1000

0

Universally applicable

Combined with our Rogowski coils, it offers a universal measurement and monitoring solution

Simple configuration and status query Configuration possible by 2 buttons on the device. Additional LEDs indicate the status of the device

feidmüll

Retrofittable

DIN mounting allows easy retrofit within the control cabinet

Rogowski current transformer system





Ordering data

Order No.	Туре	Diameter	Cable length	Primary current	Qty.
Rogowski coils					
2593370000	RCMA-B22-D70-1.5	70 mm	1.5 m	5000 A	1
2593340000	RCMA-B22-D70-4.5	70 mm	4.5 m	5000 A	1
2831090000	RCMA-B22-D70-6.0	70 mm	6 m	5000 A	1
2593380000	RCMA-B22-D125-1.5	125 mm	1.5 m	5000 A	1
2593350000	RCMA-B22-D125-4.5	125 mm	4.5 m	5000 A	1
2831100000	RCMA-B22-D125-6.0	125 mm	6 m	5000 A	1
2593390000	RCMA-B22-D175-1.5	175 mm	1.5 m	5000 A	1
2593360000	RCMA-B22-D175-4.5	175 mm	4.5 m	5000 A	1
2831110000	RCMA-B22-D175-6.0	175 mm	6 m	5000 A	1
2865880000	RCMA-B22-D300-6.0	300 mm	6 m	5000 A	1
lote					

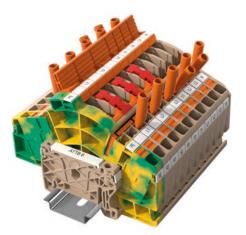
Order No.	Туре	Output current	Input measurement range	Qty.
Transmitter				
2593400000	RCMC-5000-1A-P	01 A AC	100 A, 200 A, 300 A, 400 A, 500 A, 600 A, 800 A, 1000 A, 1500 A, 2000 A, 4000 A, 5000 A	1
2593410000	RCMC-5000-A0-P	020 mA, 420 mA	100 A, 200 A, 300 A, 400 A, 500 A, 600 A, 800 A, 1000 A, 1500 A, 2000 A, 4000 A, 5000 A	1
Note				

Efficient implementation of testing and measurement switchgear Current and voltage transformer wiring solutions

When installing power monitoring components, a simple defective connection can result in the destruction of current transformers or voltage converters. Our specially developed test-disconnect terminal blocks are a safe way of solving this problem. Easy to use and available with different connection technologies, they facilitate error-free and convenient wiring. This guarantees the protection of your transformers and measuring devices and ensures safe, precise work. The modular concept of our terminal blocks for transformer switchgears also saves space in the cabinet.

Avoiding errors through ease of use

Our test terminal blocks with tried-and-tested screw connection technology allow a large number of switching tasks to be overcome clearly and cost-effectively. The screws for the wire connection can only be accessed once the current transformer's short-circuit slider has been activated. This enhances safety as it prevents the accidental short-circuiting or opening of the converter circuit. Our pre-installed LST EM-BLOCK makes it easier to connect and short the current transformers, and is suitable for up to four phases.





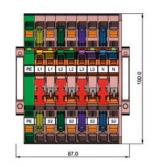
Ordering data

Туре	Order No.
EM CONNECTOR CURRENT ATTB	8000100996
EM CONNECTOR VOLTAGE ATTB	8000100997

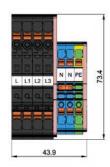
Technical data

	EM CONNECTOR	EM CONNECTOR
	VOLTAGE ATTB	CURRENT ATTB
Connectable current transformers	4	4
Fuses for measurement voltage	3 phases	No
Fuse for supply voltage	Yes	No
Neutral conductor connection	2	No
PE connection	Yes	No
Markers	Yes	Yes

EM CONNECTOR CURRENT ATTB



EM CONNECTOR VOLTAGE ATTB



Retrofit energy solutions

Retrofit energy solutions

Introduction	F.2
Plug&Play boxes	F.4
Connectivity-Boxes	F.8

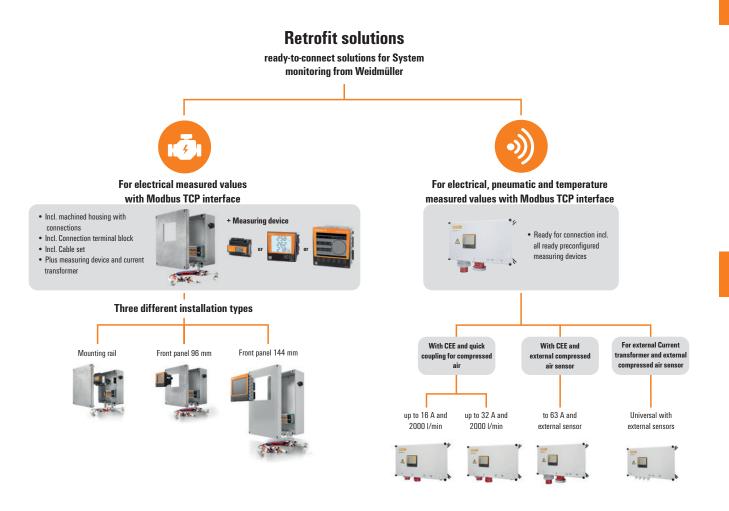
The Industrial IoT offers numerous opportunities to increase plant transparency, availability and efficiency. The basis for this is the communication capability of all plant components. New machines are directly equipped with the necessary sensor technology. Millions of existing plants, however, have to be retrofitted to meet the necessary requirements.

With the ready-to-connect Plug&Play boxes and the Connectivity boxes, Weidmüller provides simple and cost-effective retrofit solutions that can be installed with little effort. Various measuring devices can be integrated into the boxes to record consumption data - regardless of whether these are electrical or compressed air consumers. In combination with Weidmüller's u-sense components, the basis is created for continuous communication of consumption data from the sensor to the cloud. This enables a transparent display of all energy consumption in a plant, which is necessary for an energy management system with the goals of increasing efficiency and reducing electricity costs.

Both housing solutions are characterized by high modularity and interface diversity. Connectivty boxes have been specially designed to meet the requirements relevant to the introduction and expansion of energy management systems.

Retrofit energy solutions





Weidmüller 😤 F.3

Digitalization in production enables the use of Industrie 4.0 technologies. An important added value of Industry 4.0 is the possibility of increasing energy efficiency. Since it is estimated that more than half of all plants do not yet have sufficient communication-capable components, subsequent machine connection is necessary, especially in the brownfield. If existing machines are equipped with sensors and communication interfaces, they can continue to be used and do not have to be decommissioned due to a lack of Industrie 4.0 interfaces.

With Weidmüller's ready-to-connect plug&play boxes, you can easily integrate existing machines into your Industrial IoT network without extensive intervention in the control cabinet structures. By retrofitting, you gain transparency over the energy consumption as well as the efficiency of all machines and thus have the opportunity to effectively minimize energy costs.

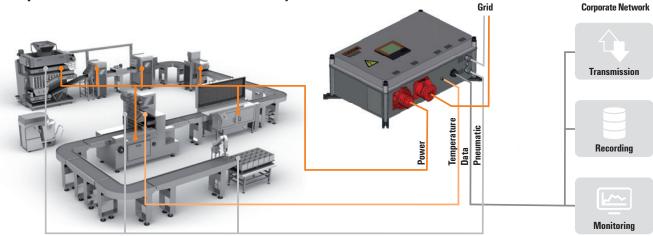
With our ,Connect Brownfield to efficiency' concept, our products become the link between your machines and the downstream control system.

The boxes thus serve as data collectors and at the same time form the basis for evaluating and transparently displaying your energy consumption. All you need is a network connection near the Plug&Play boxes.

Your special advantage:

- Integrated components for measuring energy or compressed air consumption
- Connection via standard plugs such as CEE, HDC, SAI and RJ45
- Reliable use in the field due to housing with protection class IP54
- Networking of system components directly in the field without adjustments in the control cabinet
- Simple mounting via optional magnetic holders
- High variability due to integrated or external measuring sensors
- Integration of preconfigured measuring devices
- · High data security due to built-in device memory
- Immediate data recording and display using integrated Weidmüller ecoExplorer go software

Acquisition of field data of machines and systems



Easy mounting via optional magnetic holders



Plug&Play Boxes

The Plug&Play device boxes are designed for weatherproof and stationary use. Protection class II according to IEC 60536 (VDE 0106. Part 1)

PnP-16MOD-TCP

32 A 480 V

via the input measuring circuit

20...2000 l/min. 8 bar Ш IP54 4





Technical data

Ordering data

Note

Rated current	16 A
Measurement range, voltage L-L, AC	480 V
Voltage supply	via the input measuring circuit
Airflow rate, min. / max.	202000 I/min.
Nominal input air pressure	8 bar
Surge voltage category	I
Protection degree	IP54
Pollution severity	4
Air pressure (operation)	\geq 795 hPa (height \leq 2000 m) as per DIM
Type of mounting	Wall mounting; Connection side lying
Inputs / Outputs	
Temperature input	Yes
Digital output configurable	Yes
Compressed-air connection available	Yes
Type of compressed-air connection	Quick coupling for hoses with 10 mm
Communication	
Interface	Ethernet 10/100 Base-TX (RJ-45 socket
Protocol	TCP/IP, DHCP Client (BootP), Modbus/TC
	NTP, Modbus RTU over Ethernet (Port 80
General data	
Width / Height / Depth	530 / 340 / 225 mm
Weight	8640 g
Ambient temperature	0 °C45 °C
Humidity	3585 % RH (at ambient temperature)
Note	

uring circuit ≤ 2000 m) as per DIN EN 61131-2 nnection side lying hoses with 10 mm Base-TX (RJ-45 socket), Web server/e-mail nt (BootP), Modbus/TCP (Port 502), ICMP (Ping), I over Ethernet (Port 8000), FTP, SNMP nm

Yes	
Yes	
Yes	
Quic	ck coupling for hoses with 10 mm
Ethe	ernet 10/100 Base-TX (RJ-45 socket), Web server/e-mail
TCP,	/IP, DHCP Client (BootP), Modbus/TCP (Port 502), ICMP (Ping),
NTP	P, Modbus RTU over Ethernet (Port 8000), FTP, SNMP
530) / 340 / 225 mm
894	0 g
0 °C	C40 ℃

 \geq 795 hPa (height \leq 2000 m) as per DIN EN 61131-2

Wall mounting; Connection side lying

35...85 % RH (at ambient temperature)

Qty.	Order No.
1	2716650000
	Qty. 1

Туре	Qty.	Order No.
PNP-32-MOD-TCP	1	2716660000

F

Retrofit energy solutions

F

PNP-63-MOD-TCP

PNP-U-MOD-TCP



63 A	via cur
480 V	480 V
via the input measuring circuit	230 V
1	Ш
IP54	IP54
4	4
\geq 795 hPa (height \leq 2000 m) as per DIN EN 61131-2	≥ 795
Wall mounting; Connection side lying	Wall m
Yes	Yes
Ethernet 10/100 Base-TX (RJ-45 socket), Web server/e-mail	Ethern
TCP/IP, DHCP Client (BootP), Modbus/TCP (Port 502), ICMP (Ping),	TCP/IP
	NTP, N
NTP, Modbus RTU over Ethernet (Port 8000), FTP, SNMP	
NTP, Modbus RTU over Ethernet (Port 8000), FTP, SNMP	
NTP, Modbus RTU over Ethernet (Port 8000), FTP, SNMP	550 / 3
	550 / 7320 (
540 / 340 / 225 mm	

aven 0	•5
	.*

via current transformer 1 A/5 A
480 V
230 V
IP54
4
\geq 795 hPa (height \leq 2000 m) as per DIN EN 61131-2
Wall mounting; Connection side lying
Yes
Ethernet 10/100 Base-TX (RJ-45 socket), Web server/e-mail
TCP/IP, DHCP Client (BootP), Modbus/TCP (Port 502), ICMP (Ping),
NTP, Modbus RTU over Ethernet (Port 8000), FTP, SNMP
550 / 340 / 225 mm
7320 g

5 % RH (at ambient temperature)

1	2716670000
	1

Туре	Qty.	Order No.
PNP-U-MOD-TCP	1	2716690000

Implement energy measurements simply and effectively Maximum energy transparency for minimum cost

The EM-Connectivity-Box from Weidmüller has the perfect properties to allow really effective introduction or extension of an Energy Management system. As well as the option of flexible selection of the measuring instrument, there is also perfect coordination between all associated products, especially the enclosure and connection terminals.

The benefits at a glance

- Quicker and cheaper installation
- No significant changes required in the control cabinet or power distribution
- All the fuses, short-circuit devices, labelled cables and circuit diagrams are included
- No engineering required
- Protection class up to IP65 (EM-Connectivity-Box TS)
- Can be ordered as a standard item
- No minimum order





Flexible choice of measuring instrument Three different designs enable a good choice from our energy measuring

enable a good choice from our energy measuring instruments to suit your specific needs.



High quality, assembled enclosure

Our energy measuring instruments are made from high-quality aluminium and plastic enclosures which already have all the necessary drilled holes and cut-outs.



F





Components marked to prevent mix-ups All cables, terminals and connections on the measuring instrument are clearly labelled in the factory to ensure quick, correct connections.

Tried and tested Weidmüller modular terminal blocks To enable optimum connection to our energy measuring instruments, we have specially selected a range of our tried and tested modular terminal blocks.



Easy to install current transformers

Our cable conversion current transformers are easy to fit without disconnecting the cable. Alternatively, we offer a wide range of through and clip-on current transformers.



F



Ordering data Type EM-Connectivity-Box 96 Type of protection IP54 **Dimensions (h x w x d)** 310 x 230 x 111 mm Order No. 8000028950 Material Aluminium EM-Connectivity-Box TS IP65 310 x 230 x 111 mm 8000028951 Aluminium EM-Connectivity-Box 144 IP42 430 x 250 x 120 mm 8000028952 Plastic

G.2

G.8

Sensors - u-sense

Sensors - u-sense

u-sense vibration ______u-sense energy drives u-sense vibration for easy retrofitting as a wireless IIoT solution

Vibrations tell us a lot about the condition of a machine. For example, they can indicate early signs of obvious wear. With u-sense vibration, unusual vibrations can be reliably detected.

u-sense vibration is a compact sensor for monitoring the condition of machines. It was designed especially for continuously running pumps and drives. Thanks to a battery power supply, wireless data transmission and IP66 protection, u-sense vibration is ideally suited for retrofitting in the field. Together with the Weidmüller Gateway IoT-GW30, the data collected by the sensor can be temporarily stored, visualised, and transferred to a cloud or local system.

The unique advantages:

- Wireless vibration sensor as easy retrofit for machine monitoring
- Processing of acceleration data in time and frequency domain
- Data transmission to cloud and on-premise systems via IoT-GW30 gateway
- IP66 protection for harsh environments
- Approved for hazardous areas up to zone 2
- Variable mounting with M8 screw connection or mounting adaptor



Vibration analysis according to DIN ISO 20816 u-sense vibration supports signal analysis in the time and frequency domain and complies with DIN ISO 20816 for measuring and evaluating vibrations.



Sensor

US67-V1T-BLE



Technical data

General data		
Diameter	66 mm	
Height	55.5 mm	
Air pressure (operation)	\geq 795 hPa (height \leq 2000 m) as per DIN EN 61131-2	
Protection degree	IP66	
Sensor data vibration		
Monitored value	Acceleration	
Monitoring	Vibration monitoring acc. to DIN ISO 10816	
Type of sensor	tri-axial MEMS	
Accuracy	At 80 Hz, 1,0% Full Scale	
	At 400 Hz 5,0% Full Scale, at 25°C	
Sensor data temperature		
Monitored value	Temperature	
Type of sensor	Temperature MEMS	
Measured temperature value, min.	-20 °C	
Measured temperature value, max.	80 °C	
Accuracy	+/- 1 °C	
Communication		
Communication range, max., line-of sight	90 m	
Communication range, max., in shop floor	30 m	
Bluetooth module	Bluetooth 5.0 Low Energy	
Power supply		
Battery	AA	
Battery voltage	3.6 V	
Battery capacity	2.2 Ah	
Battery lifetime	>2 years depending on the transmission interval and the operati temperature	
,		
Insulation coordination		
Surge voltage category		
Rated voltage	50 V secondary circuits	
Pollution severity	2	
Enclosure		
Cover material	PC-ABS	
Socket material	Stainless steel	
Installation		
Type of mounting machine	Adhesive mounting, via M8 screw or adapter, socket with hexagon	
	nut SW 22	
Type of mounting sensor	Screwing	
Mounting thread	M8	
Note		
Drdering data		
J	Type Qty. Order No.	
	US67-V1T-BLE 1 275126000	

Battery

US67-BAT-COSL



Technical data

General data	
Diameter	14.7 mm
Height	52.5 mm
Battery voltage	3.6 V
Battery capacity	2.2 Ah
Battery lifetime	>2 years depending on t temperature
Battery type	AA
Note	
Ordering data	
	Туре
	US67-BAT-COSL
Note	

14.7 mm
52.5 mm
3.6 V
2.2 Ah
>2 years depending on the transmission interval and the operating
temperature
AA

Туре	Qty.	Order No.
US67-BAT-COSL	1	2757620000

Adapter plate

US67-PLATE64-STD



Technical data

General data Diameter Height Type of mounting machine Type of mounting sensor Note

Ordering data

Note

64 mm	
11.5 mm	
Adhesive mounting	
Screwing	

Туре	Qty.	Order No.
US67-PLATE64-STD	1	2811910000

Sensors - u-sense

G

Bluetooth Stick

US67-USB-STICK-BLE



Technical data General data Height 16 mm Width 11 mm 43 mm Length Bluetooth module Bluetooth 5.0 Low Energy Antenna characteristics integrated Note Ordering data Туре Qty. Order No. US67-USB-STICK-BLE 2874720000 Note

Gateways for the field application

FP IOT MD01 xxx S2 00000



Technical data	
General data	
Type of mounting	
Protection degree	
Voltage supply	
Speed	
USB port	
Note	

Screw mounting, Wall mounting IP54 24 V DC Fast Ethernet 1x USB 2.0 (Type A; max. 500 mA)

Ordering data

Туре	Qty.	Order No.
FP IOT MD01 LAN S2 00000	1	8000058603
FP IOT MD01 4EU S2 00000	1	8000058270

Note

Gateways for the cabinet

IOT-GW30

DIN rail IP20 24 V DC

Fast Ethernet 1x USB 2.0 (Type A; max. 500 mA)



Technical data

General data
Type of mounting
Protection degree
Voltage supply
Speed
USB port
Note

Ordering data

Туре	Qty.	Order No.
IOT-GW30	1	2682620000
IOT-GW30-4G-EU	1	2682630000

Note

G

Sensors - u-sense

Smart condition monitoring of motors with u-sense The IIoT solution for easy retrofitting of almost any drive

In existing plants, machines such as pumps, fans, compressors and conveyors are usually driven by simple asynchronous motors without a connection to the Industrial Internet of Things (IIoT). u-sense enables the retrofit integration of these drives into the IIoT environment.

u-sense energy drives is an industrial solution for providing electrical data. It can be easily integrated into existing systems and takes all connection variants of electric motors into account. Due to a smart pre-processing unit, u-sense provides all data required for monitoring or predictive maintenance. In combination with downstream analytics software, errors can be identified automatically and appropriate actions can be recommended.

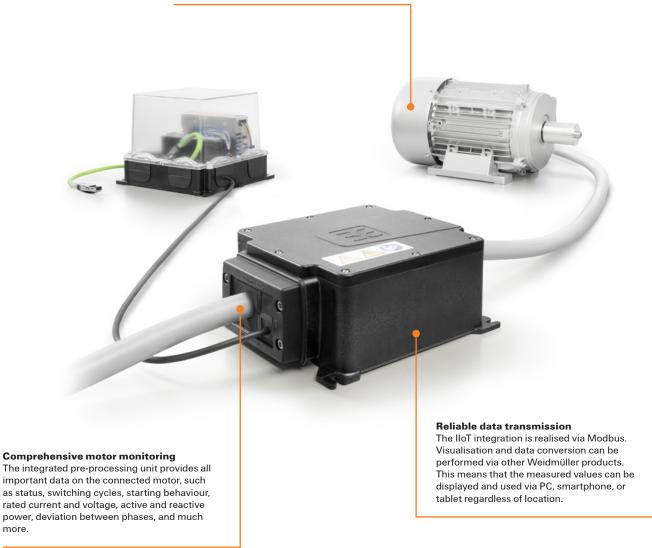
The unique advantages:

- A quickly installed retrofit solution with integrated data pre-processing
- Data collection for star and star-delta motors
- Additional inputs for analogue and digital sensors
- Brake and temperature lines can be routed through when using hybrid cabling

Sensors - u-sense



Comprehensive motor monitoring The integrated pre-processing unit provides all important data on the connected motor, such as status, switching cycles, starting behaviour, rated current and voltage, active and reactive power, deviation between phases, and much more.



u-sense energy drives



Technical data

Protection degree	
Shock and vibration proof according to	
Insulation voltage	
Operating altitude	
Device parameters	
Interface	
Protocol	
Type of connection	
Data rate	
Clamping range min. / max.	
Connector cross-section AWG	
Power supply	
Supply voltage	
Voltage type	
Tolerance	
Type of connection	
Clamping range min. / max.	
Connector cross-section AWG	
Loop through temperature/brake senso	r
Rated voltage with 1 phase	
Rated voltage with 3 phases	
Rated current	
Type of connection	
Clamping range min. / max.	
Connector cross-section AWG	
Bandwidth	
Measuring accuracy for voltage	
Measuring accuracy for current	
Loop through motor connection	
Clamping range min. / max.	
Stud size for spade connection	
Type of connection	
INPUT/OUTPUT temperature/brake	
Type of connection	
Clamping range min. / max.	
Connector cross-section AWG	
INPUT digital/analog	
Connection information digital inputs	
Connection information analogue inputs	
Type of connection	
Clamping range min. / max.	
Connector cross-section AWG	
Output parameters	
Output parameters	



IE-UD50KW-MODBUS-W

IP65
5 g 60 Hz
500 V DC
≤ 2000 m
RS485
Modbus RTU
PUSH IN
115.2 kBaud
0.13mm ² 1.5mm ²
AWG 14AWG 28
24V
DC
20 %
PUSH IN
0.13mm ² 0.5mm ²
AWG 14AWG 28
300V
480V
30A
PUSH IN
0.5mm ² 16mm ²
AWG 4AWG 18
2kHz
3%
4%
0.1mm ² 0.1mm ²
M 5
Screw connection
PUSH IN
0.13mm ² 0.5mm ²
AWG 14AWG 28
0 V / 24 V PNP input
configurable 0-10 V; 0-20 mA
PUSH IN
0.13mm ² 0.5mm ²
AWG 14AWG 28

Current eff each phase (A), Voltage eff each phase (V), Phase angle each phase (°), Energy consumption (kWh), Active power (calculated) (kW), Frequency of voltage (Hz), Switch on - Switch off cycles (Integer), Operating hours (10 h), Start up current (A), Start up time (s), Analog U/I (V/mA), Digital on/off, Device identification

Order No.

2739330000

Qty.

1

Further technical data can be found at catalog.weidmueller.com

Туре

IE-UD50KW-MODBUS-W

Ordering data

Note

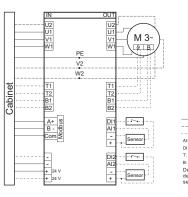
Note











A comprehensive automation portfolio

A comprehensive automation portfolio

A comprehensive automation portfolio

Introduction	H.2
I/O system - u-remote	H.4
Control - u-control	H.12
Web Panels - u-view	H.18
Industrial PCs - u-view	H.20
loT-Gateway	H.22

Η

For optimal automation From data collection to data communication

To be able to benefit as much as possible from automated processes, you need products and solutions that are tailored to each other. Data needs to be recorded correctly, processed reliably, and transmitted without losses. We offer a comprehensive product portfolio so that all of these processes work perfectly with each other. It covers all areas from data collection to data pre-processing and data communication. We can also help you to generate real added value from your data. We will support you in choosing the right hardware and software systems so that you can optimally analyse and use your data. This means that the ideal solution for any application is just waiting for you.

Over the next pages, we'll present a small extract from our automation portfolio, which optimally supports our solutions for energy management systems. Get an overview of our I/O systems and controllers, learn about our industrial PCs, and find out more about our IoT gateway, the basis for your applications in the Industrial IoT.

More information in Catalogue 10: Automation and Software Tools

www.weidmueller.de/service



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Worldwide usage in different applications and different industries

Weidmüller Industrial Ethernet components are the perfect link for data communication between Ethernet enabled devices in industrial automation. By supporting various topologies and protocols, they can be used in many industrial applications.

As a complete provider of industrial network infrastructure for machine and equipment manufacture, we offer a wide range of switch products to suit the individual needs of our customers. In particular, Gigabit switches (unmanaged and managed) and media converters, Power-over-Ethernet switches, WLAN devices and serial/Ethernet converters to meet the highest requirements and provide a reliable and flexible Ethernet communication. An extensive passive product portfolio consisting of RJ 45 and fibre optic connectors and cables make Weidmüller your partner for industrial Ethernet solutions.

Optimum power supply for automation technology

The switch-mode power supplies feature a high efficiency, compact dimensions and minimal heat generation. They are an excellent and reliable solution for providing power in all automation applications – safely providing 24 V DC voltage. The different product series are optimised for the automation industry: they feature Ex approvals for the processing industry, a flat shape perfect for distribution tasks within buildings and provide decentralised control voltages. All-purpose usage: with a wide range of AC/DC inputs, single-, double- or three-phase versions and a wide temperature range. Additional performance increases are possible using simple parallel connection. Weidmüller switch-mode power supplies are reliable usable for all applications because of their high efficiency and their resistance to both short circuits and overloads.

Weidmüller offers a system of one- and three-phase switchmode power supplies especially for the PROtop family.



Powerful Analogue signal conditioning

Considering the increase of automation, isolating amplifiers are required which convert, isolate, monitor, protect and visualise your digital and analogue signal values from industrial and process automation, e.g. temperature, pressure, level, flow volumes, weight, and speed. Our signal converters for DC standard signals, 4-20 m A and 0-10 V isolating amplifiers, switching amplifiers, frequency converters, and threshold switches are characterised by a high level of accuracy, universality and a wide assortment of variants.

Achieving maximum efficiency in the control cabinet With great savings potential and optimum system performance

u-remote from Weidmüller is the reliable interface between field bus and field level in automation. The modular system is based on various components: a fieldbus coupler, up to 64 I/O modules, optional power-feed modules and a wealth of accessories, such as markers and terminating elements.

The fieldbus coupler is the central link between the various field bus standards and the u-remote system bus. At the same time, up to 64 I/O modules are supplied via its integrated power contacts. The well-engineered technology of the connection system enables 2 x 10 A to be supplied for the input and output modules and the system voltage to be fully supplied through the fieldbus coupler. Every fieldbus coupler provides direct access to the u-remote system via a web server without additional software having to be installed. This means that the system can be parameterised and its configuration checked. Inputs and outputs can also be checked or influenced. The connection may take the form of an Ethernet-based field bus or micro USB. The u-remote fieldbus couplers are integrated in the standard simple manner. The corresponding development environments of the control systems and the device description files available online, e.g. GSD, ESD, EDS oder XML, can be used to easily perform the necessary settings.

The modularly structured I/O modules are unique in that they allow the sensor and actuator wiring to be designed in both a robust and plug-in manner. This allows the electronics to be replaced at any time even with permanent wiring. This achieves an invaluable time saving, in terms of both wiring inaccessible cabinets and rapidly replacing sensors. Thanks to the "PUSH IN" technology for up to 1.5 mm², in their narrowest form of 11.5 mm, the modularly structured u-remote I/O modules can be used for all sensor and actuator connections with a very high connection density. A clear status and diagnosis display on the connection also ensures rapid and precise checks for individual sensors and actuators.





Why waste space?

Design your cabinets one size smaller: u-remote, with the highest connection density on a module, offers you the most slender module width and a far lower space requirement for power-feed modules - an unrivaled channel density and extremely flexible design options.



Simply plug and go

The plug-in connection level allows sensors and actuators to be connected with pre-assembled cables. This means improved time benefits, better handling, and minimises the number of mistakes in system wiring.





Diagnostics, even

without a control connection

u-remote simplifies machine commissioning section-by-section and accelerates maintenance work with its integrated web server. Thanks to the high performance diagnostic tool, you can simulate the functionality of inputs and outputs prior to control connection.

You can conduct plain text error analyses using any standard browser – whether you're working on-site or remotely.



Intelligently separated

u-remote separates the supply for inputs and outputs using two 10 A current paths which are able to withstand high loads. High productivity translates into fewer power-feed modules and therefore more space and less planning.



ModbusTCP fieldbus coupler Web server tool, two RJ45 Ports, 10/100 Mbit/s

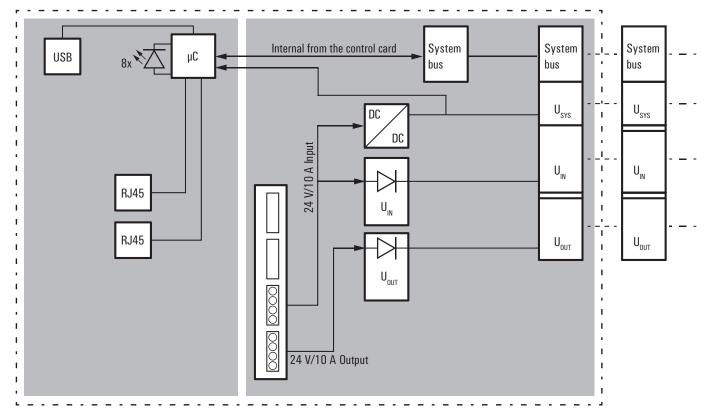
System safety around the globe is provided by the ModbusTCP version, which is stated in IEC 61158 as an Industrial Ethernet Standard. The UR20-FBC-MOD-TCP-V2 from Weidmüller is a field bus coupler designed in accordance with IEC 61158. With options for connecting up to 64 u-remote participants, it serves as the head module for the u-remote system bus.

The coupler can be activated with a system-independent web server application via the USB service interface or the Ethernet ports. All information, such as diagnoses, status values and parameters, can therefore be read out. All connected inputs can also be simulated or outputs set. The system's initial power supply is already integrated in the field bus coupler. Power is supplied via two 4-pin connectors, separated into the input and output current paths.

Since the ModbusTCP products from Weidmüller make full use of all the latest technological possibilities, such as diagnosis options, they actively support your application in the most important tasks – from engineering and commissioning to fault diagnosis.

H

Block diagram Modbus TCP fieldbus coupler



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ModbusTCP

- Dual LAN mode
- 2 x 10 A current path
- Various Modbus services
- Web server
- $\bullet\,$ System supply for 64 I/O modules
- Temperature range: -20... +60 °C



UR20-FBC-MOD-TCP-V2

Technical data

System data
Connection type
Field bus protocol
Process data
Parameter data
Diagnostic data
max. number of modules
Configuration interface
Transmission rate of field bus, max.
Transmission speed of system bus, max.
Supply
Supply voltage for inputs
Supply voltage for outputs
Feed current for I_{IN} (input current path) , max.
Feed current for I_{out} (output current path) , max.
Current consumption $I_{\mathbb{N}}$ (power segment of the field bus coupler), typ.
General data
Weight
Dimensions H x W x D

Note

Ordering data Module variants

Fieldbus coupler, ModbusTCP

Note

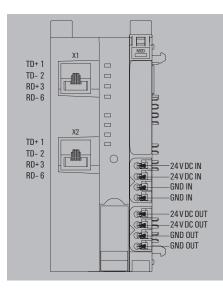
Accessories

Termination kit Swievel marker Connection marker for pusher custom printing Connection marker for pusher neutral Module marker for custom printing Module marker for neutral Thermotransfer version (Materiai: Polyester) Thermotransfer version (materiai: polyester) Paper version for Laserprinter USB cable (USB A to Micro USB) Replacement parts Plug-in connector unit Note

2x RJ45 plug-in connectors Modbus/TCP 1 kByte 1024 Byte 1024 Byte 64 Micro USB 2.0 100 Mbit/s 48 Mbit/s 24 V DC +20 %/ -15 % 24 V DC +20 %/ -15 % 10 A 10 A 112 mA 223 g 120 mm / 52 mm / 76 mm

Туре	Qty.	Order No.
UR20-FBC-MOD-TCP-V2	1	2476450000
A termination kit (UR20-EBK-ACC) is included	in the couple	r package

Туре	Qty.	Order No.
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
PM 2.7/2.6 MC SDR	192	1323700000
PM 2.7/2.6 MC NE WS	960	1323710000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE	1	1429910000
THM UR20 WS	1	1429420000
ESO UR20 DIN A4 WS	10	1429430000
IE-USB-A-MICRO-1.8M	1	1487980000
UR20-PK-2476450000-SP	5	2485280000
1 roll = 1000 labels = 1 Qty. 1 sheet = 60 labels = 1 unit		



Product standard	IEC 61131-2	
EMC	EN IEC 61000	
ATEX	EN 60079	
UL	UL 61010-2-201	
MSIP	MSIP-REM-WM	G-2476450000
222	available	
EAC	available	
ABS (American Bureau of S	Shipping)	available
BSH (Federal Maritime and	Hydrographic Agency)	available
BV (Bureau Veritas)		available
DNV (Det Norske Veritas)		available
LR (Lloyd's Register)		available
RINA (Registro Italiano Nav	/ale)	available
KR (Korean Register)		available
NK (Nippon Kaiji Kyokai)		available
PRS (Polish Register of Shi	pping)	available
RMRoS (Russian Maritime	Register of Shipping)	available

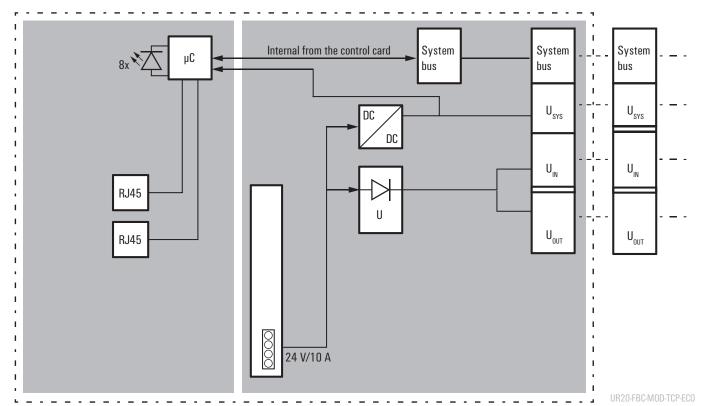
ModbusTCP fieldbus coupler ECO Web server tool, two RJ45 Ports, 100 Mbit/s

System safety around the globe is provided by the Modbus TCP version, which is stated in IEC 61158 as an Industrial Ethernet Standard. The UR20-FBC-MOD-TCP-ECO from Weidmüller is a fieldbus coupler designed in accordance with IEC 61158. With options for connecting up to 16 u-remote participants, it serves as the head module for the u-remote system bus.

The coupler can be activated with a system-independent web server application via the Ethernet ports. All information, such as diagnoses, status values and parameters, can therefore be read out. All connected inputs can also be simulated or outputs set. The initial system power supply is already integrated in the fieldbus coupler.

ModbusTCP products from Weidmüller fully exploit all the possibilities of the technology standard, e.g. through diagnostic options. In this way, they actively support your application in the most important tasks – from engineering and commissioning to fault diagnosis.

Block diagram Modbus TCP fieldbus coupler ECO



ModbusTCP

ModbusTCP ECO

- 10 A current paths
- Various Modbus services
- Web server via ethernet
- System supply of 16 I/O modules
- Temperature range 0... +50 °C

UR20-FBC-MOD-TCP-ECO



Technical data

System data	
Connection type	
Field bus protocol	
Process data	
Parameter data	
Diagnostic data	
max. number of modules	
Transmission rate of field bus, max.	
Transmission speed of system bus, r	max.
Supply	
Voltage supply	
Feed current for $I_{\ensuremath{\mathbb N}}$ (input current pat	th) , max.
Current consumption $I_{\ensuremath{\mathbb N}}$ (power segn	nent of the field bus coupler), typ.
General data	
Weight	
Dimensions H x W x D	
Note	
Ordering data	
Module variants	
	Fieldbus coupler, ModbusTCP
NL /	

Note

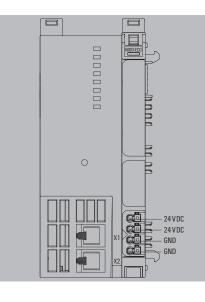
Accessories

Termination kit
Swievel marker
Connection marker for pusher custom printing
Connection marker for pusher neutral
Module marker for custom printing
Module marker for neutral
Thermotransfer version (Material: Polyester)
Thermotransfer version (material: polyester)
Paper version for Laserprinter
Replacement parts
Plug-in connector unit
Note

2x RJ45 plug-in connectors
Modbus/TCP
1 kByte
1 kByte
1 kByte
16
100 Mbit/s
48 Mbit/s
24 V DC +20 %/ -15 %, via the system bus
10 A
80 mA
247 g
120 mm / 52 mm / 76 mm

Туре	Qty.	Order No.
UR20-FBC-MOD-TCP-ECO	1	2659700000
A termination kit (UR20-EBK-ACC) is included	in the coupler	package.

Туре	Qty.	Order No.
UR20-EBK-ACC	5	1346610000
UR20-SM-ACC	20	1339920000
PM 2.7/2.6 MC SDR	192	1323700000
PM 2.7/2.6 MC NE WS	960	1323710000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE	1	1429910000
THM UR20 WS	1	1429420000
ESO UR20 DIN A4 WS	10	1429430000
UR20-PK-2659700000-SP	5	2702610000
1 roll = 1000 labels = 1 Qty. 1 sheet = 60 labels = 1 unit		



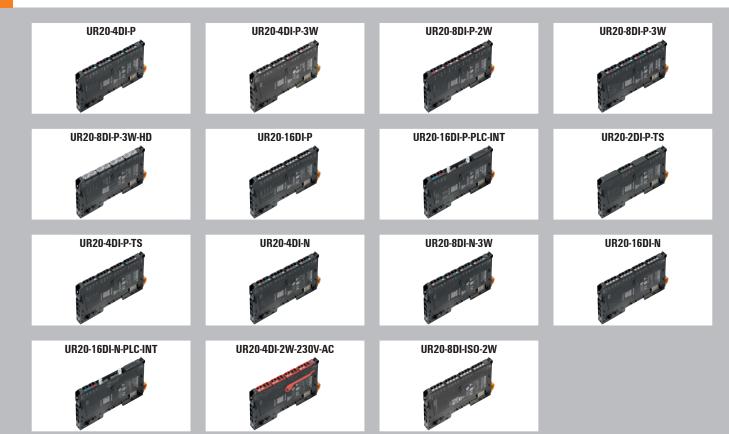
Product standard	IEC 61131-2	
EMC	EN IEC 61000	
ATEX	not available	
UL	UL 61010-2-201	
MSIP	MSIP-REM-WMG	-2659700000
CCC	not available	
EAC	available	
ABS (American Bureau of Shipping	g)	not available
BSH (Federal Maritime and Hydrog	raphic Agency)	not available
BV (Bureau Veritas)		not available
DNV (Det Norske Veritas)		not available
LR (Lloyd's Register)		not available
RINA (Registro Italiano Navale)		not available
KR (Korean Register)		not available
NK (Nippon Kaiji Kyokai)		not available
PRS (Polish Register of Shipping)		not available
RMRoS (Russian Maritime Registe	er of Shipping)	not available
You can find the latest information online	e at www.weidmuelle	r.com

Digital input modules P- or N-switching, Reverse polarity protection, up to 3-wire+FE

Digital input modules from Weidmüller are available in different versions and are used primarily to receive binary control signals from sensors, transmitters, switches or proximity switches. Thanks to their flexible design, they will satisfy your need for well coordinated project planning with reserve potential.

All modules are available with 4, 8 or 16 inputs and comply fully with IEC 61131-2. The digital input modules are available as P- or N-switching variant. The digital inputs are for Type 1 and Type 3 sensors in accordance with the standard. With a maximum input frequency of up to 1 kHz, they are used in many different applications. The variant for PLC interface units enables rapid cabling to the proven Weidmüller interface sub-assemblies using system cables. This ensures rapid incorporation into your overall system. Two modules with a timestamp function are able to capture binary signals and to provide a timestamp in 1 µs resolution. Further solutions are possible with the module UR20-4DI-2W-230V-AC which works with accurant current up to 230 V as an input signal.

The module electronics supply the connected sensors from the input current path $(\boldsymbol{U}_{\text{IN}}).$



A comprehensive automation portfolio

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Analogue input modules

Input parameters can be set for current or voltage, up to 3-wire+FE, Accuracy 0.1% FSR

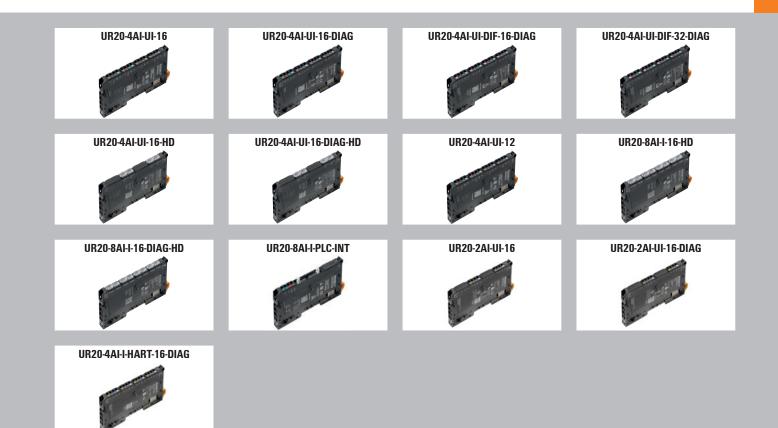
The analogue input modules can detect up to 2, 4 or 8 analogue sensors with +/-10 V, +/-5 V, 0...10 V, 0...5 V, 2...10 V, 1...5 V, 0...20 mA or 4...20 mA. Variations are available in 12 and 16 bit resolution per channel. Sensors in a 2-wire, 3-wire or 3-wire connection + FE can be connected to each plug-in connector. The measurement range is defined using parametrisation. A status LED is assigned to each channel. The inputs are protected against voltage surges and overcurrent. The module electronics supply the connected sensors from the input current path $I_{\rm IN}$ (The "ISO" module is an exception: the module has no auxiliary voltage outputs. Connected sensors must be supplied with power from external sources.)

"DIAG" module: the module provides individual channel diagnosis with channel-related fault messages.

"DIF" module: the input channels are differential inputs with a common-mode voltage range of +/-30 V.

"HART" module: the module can be used as a HART master, with each channel using a dedicated HART modem. HART devices can be connected to each channel in single connection (point-to-point, P2P) or multiple connection (multidrop).

The module electronics supply the connected sensors from the input current path (U_{IN}) .



Flexible automation of applications u-control 2000 for a powerful and compact control system

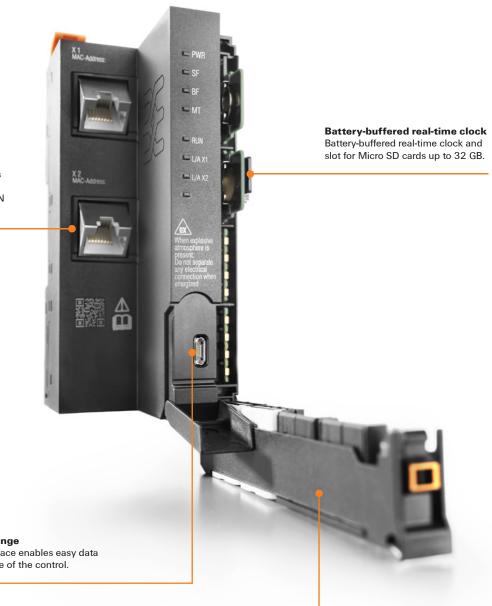
The powerful u-control 2000 controller is based on a compact design of the u-remote fieldbus coupler - for even greater space savings and maximum Flexibility in the implementation of individual automation solutions. It is is compatible with the u-remote portfolio and offers the possibility to I/O modules directly. Combined with our versatile Engineering tools u-create web and u-create studio unfold their full potential Range of applications.

The u-control 2000 is equipped with an Ethernet based fieldbus and a TCP/IP interface for programming. The controller also has an optional CAN interface. Optionally, communication via the Modbus TCP protocol or OPC-UA is also possible. In addition, u-control 2000 has a dual-core ARM-A9 processor and a USB service interface. In addition to the battery-buffered real-time clock, it also has a slot for a MicroSD with up to 32 GB.

In combination with the u-create software tools, u-control enables a maximum of customization.



compatible with u-create software-tools



Versatile connection options Fitted with a fieldbus and TCP/ IP interface, plus an optional CAN interface.

Simple data exchange

The micro USB interface enables easy data exchange and service of the control.

> Input & output current 3 separate current paths for system bus, as well as input current and output current path.

UC20-SL2000-OLAC-EC

- OpenLinux automation controller
- Engineering tool u-create studio
- System supply of 64 I/O modules
- Configurable as EtherCAT master
- 2 x 5 A current path

UC20-SL2000-OLAC-EC



Techn	ical	data

Connection type max. number of modules Configuration interface Processor Memory (Flash) Real-time clock Engineering tool Field bus protocol Supply Supply voltage for inputs Supply voltage for outputs Feed current for I _{NU} (input current path), max. Feed current for I _{NU} (output current path), max. Current consumption I _{NU} (power segment of the field bus coupler), typ. General data Weight Dimensions H x W x D Note	System data
Configuration interface Processor Memory (Flash) Real-time clock Engineering tool Field bus protocol Supply Supply voltage for inputs Supply voltage for outputs Feed current for I _m (input current path) , max. Feed current for I _{our} (output current path) , max. Current consumption I _m (power segment of the field bus coupler), typ. General data Weight Dimensions H x W x D	Connection type
Processor Memory (Flash) Real-time clock Engineering tool Field bus protocol Supply voltage for inputs Supply voltage for outputs Feed current for I _m (input current path) , max. Feed current for I _{our} (output current path) , max. Current consumption I _m (power segment of the field bus coupler), typ. General data Weight Dimensions H x W x D	max. number of modules
$\label{eq:restored} \begin{array}{l} \text{Memory (Flash)} \\ \text{Real-time clock} \\ \text{Engineering tool} \\ \hline \\ \text{Field bus protocol} \\ \hline \\ \begin{array}{l} \textbf{Supply} \\ \textbf{Supply voltage for outputs} \\ \text{Feed current for } I_{\text{IN}} (\text{input current path}) \ , \text{max.} \\ \text{Feed current for } I_{\text{OUT}} (\text{output current path}) \ , \text{max.} \\ \text{Current consumption } I_{\text{IN}} (\text{power segment of the field bus coupler}), typ. \\ \hline \\ \begin{array}{l} \textbf{General data} \\ \\ \text{Weight} \\ \\ \text{Dimensions H x W x D } \end{array} \end{array}$	Configuration interface
Real-time clock Engineering tool Field bus protocol Supply Supply voltage for inputs Supply voltage for outputs Feed current for I _{NV} (input current path) , max. Feed current for I _{DUT} (output current path) , max. Current consumption I _{NV} (power segment of the field bus coupler), typ. General data Weight Dimensions H x W x D	Processor
Engineering tool Field bus protocol Supply Supply voltage for inputs Supply voltage for outputs Feed current for I _{NV} (input current path) , max. Feed current for I _{OUT} (output current path) , max. Current consumption I _{NV} (power segment of the field bus coupler), typ. General data Weight Dimensions H x W x D	Memory (Flash)
Field bus protocol Supply Supply voltage for inputs Supply voltage for outputs Feed current for I _{NV} (input current path) , max. Feed current for I _{NV} (output current path) , max. Current consumption I _{NV} (power segment of the field bus coupler), typ. General data Weight Dimensions H x W x D	Real-time clock
Supply Supply voltage for inputs Supply voltage for outputs Feed current for I _{nt} (input current path) , max. Feed current for I _{out} (output current path) , max. Current consumption I _{nt} (power segment of the field bus coupler), typ. General data Weight Dimensions H x W x D	Engineering tool
Supply voltage for inputs Supply voltage for outputs Feed current for I _{NI} (input current path) , max. Feed current for I _{OUT} (output current path) , max. Current consumption I _{NI} (power segment of the field bus coupler), typ. General data Weight Dimensions H x W x D	Field bus protocol
$\label{eq:supply voltage for outputs} \\ \mbox{Feed current for } I_{N} \mbox{ (input current path) , max.} \\ \mbox{Feed current for } I_{out} \mbox{ (output current path) , max.} \\ \mbox{Current consumption } I_{N} \mbox{ (power segment of the field bus coupler), typ.} \\ \mbox{General data} \\ \mbox{Weight} \\ \mbox{Dimensions } H \times W \times D \\ $	Supply
Feed current for I_w (input current path) , max. Feed current for I_w (input current path) , max. Current consumption I_w (power segment of the field bus coupler), typ. General data Weight Dimensions H x W x D	Supply voltage for inputs
Feed current for I_{UUT} (output current path) , max. Current consumption I_{W} (power segment of the field bus coupler), typ. General data Weight Dimensions H x W x D	Supply voltage for outputs
Current consumption I _m (power segment of the field bus coupler), typ. General data Weight Dimensions H x W x D	Feed current for I_N (input current path) , max.
General data Weight Dimensions H x W x D	Feed current for I_{out} (output current path) , max.
Weight Dimensions H x W x D	Current consumption ${\sf I}_{{\sf I}{\sf N}}$ (power segment of the field bus coupler), typ.
Dimensions H x W x D	General data
	Weight
Note	Dimensions H x W x D
	Note

Ordering data

Η

Module variants OpenLinux automation controller (Studio engineering) Note

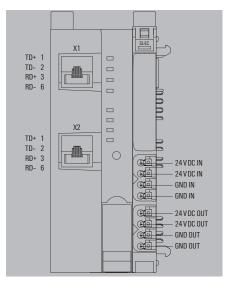
Accessories

Swievel marker
Connection marker for pusher custom printing
Connection marker for pusher neutral
Module marker for custom printing
Module marker for neutral
Thermotransfer version (Material: Polyester)
Thermotransfer version (material: polyester)
Paper version for Laserprinter
USB cable (USB A to Micro USB)
Replacement parts
Plug-in connector unit
Control hardware (replacement)
Engineering software
u-create studio engineering software
u-create studio engineering software
Control accessories
SD Memory Card
Battery for real-time clock
Note

2 x RJ45 plug-in connectors
64
Micro USB 2.0
Dual Core ARM Cortex A9, 624 MHz, 512 Mbyte RAM
4 GB, 32 GB via microSD
Battery buffered
u-create studio
EtherCAT
24 V DC +20 %/ -15 %
24 V DC +20 %/ -15 %
5 A
5 A
116 mA
250 g
120 mm / 52 mm / 76 mm

Туре	Qty.	Order No.
UC20-SL2000-OLAC-EC	1	2638920000
A termination kit (UC20-EBK-ACC) is included in	the controll	er package.

Туре	Qty.	Order No.
UR20-SM-ACC	20	1339920000
PM 2.7/2.6 MC SDR	192	1323700000
PM 2.7/2.6 MC NE WS	960	1323710000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE	1	1429910000
THM UR20 WS	1	1429420000
ESO UR20 DIN A4 WS	10	1429430000
IE-USB-A-MICRO-1.8M	1	1487980000
UR20-PK-2674520000-SP	5	2665170000
UC20-SL2000-EC	1	2674520000
U-CREATE-STUDIO	1	2660130000
U-CREATE-STUDIO-ANNUAL	1	2722630000
SD-CARD-8GB	1	2684400000
BATTERY-CR1220-3V	1	2684410000
u-link licences: See catalogue 9 - Industrial Ethe licences: See catalogue 10 - Automation and S		



Product standard	IEC 61131-2	
EMC	IEC 61000	
ATEX	EN 60079	
UL	UL 121201	
MSIP	Not available	
CCC	Not available	
EAC	Not available	
ABS (American Bureau of	Shipping)	Available
BSH (Federal Maritime an	d Hydrographic Agency)	Not available
BV (Bureau Veritas)		Available
DNV (Det Norske Veritas)		Not available
LR (Lloyd's Register)		Available
RINA (Registro Italiano Na	ivale)	Available
KR (Korean Register)		Not available
NK (Nippon Kaiji Kyokai)		Not available
PRS (Polish Register of Sh	nipping)	Not available
RMRoS (Russian Maritime	e Reaister of Shippina)	Not available

UC20-SL2000-OLAC-EC-CAN

UC20-SL2000-OLAC-EC-CAN



Technical data

System data
Connection type
max. number of modules
Configuration interface
Processor
Memory (Flash)
Real-time clock
Engineering tool
Field bus protocol
Supply
Supply voltage for inputs
Supply voltage for outputs
Feed current for I_{IN} (input current path) , max.
Feed current for I_{out} (output current path) , max.
Current consumption $I_{\mathbb{N}}$ (power segment of the field bus coupler), typ.
General data
Weight
Dimensions H x W x D
Note

Ordering data

Module variants

	OpenLinux automation controller (Studio engineering)
Note	

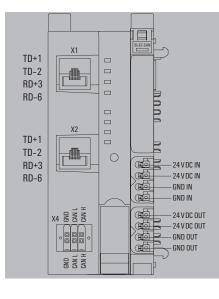
Accessories

Swievel marker
Connection marker for pusher custom printing
Connection marker for pusher neutral
Module marker for custom printing
Module marker for neutral
Thermotransfer version (Material: Polyester)
Thermotransfer version (material: polyester)
Paper version for Laserprinter
USB cable (USB A to Micro USB)
Replacement parts
Plug-in connector unit
Control hardware (replacement)
Engineering software
u-create studio engineering software
u-create studio engineering software
Control accessories
SD Memory Card
Battery for real-time clock
Note

2x RJ45 plug-in connectors
64
Micro USB 2.0
Dual Core ARM Cortex A9, 624 MHz, 512 Mbyte RAM
4 GB, 32 GB via microSD
Battery buffered
u-create studio
CANopen, EtherCAT
24 V DC +20 %/ -15 %
24 V DC +20 %/ -15 %
5 A
5 A
116 mA
232 g
120 mm / 52 mm / 76 mm

Туре	Qty.	Order No.
UC20-SL2000-OLAC-EC-CAN	1	2655590000
A termination kit (UC20-EBK-ACC) is included in t	he controll	er package.

Туре	Qty.	Order No.	
UR20-SM-ACC	20	1339920000	
PM 2.7/2.6 MC SDR	192	1323700000	
PM 2.7/2.6 MC NE WS	960	1323710000	
DEK 5/8-11.5 MC SDR	100	1341610000	
DEK 5/8-11.5 MC NE WS	500	1341630000	
THM UR20 GE	1	1429910000	
THM UR20 WS	1	1429420000	
ESO UR20 DIN A4 WS	10	1429430000	
IE-USB-A-MICRO-1.8M	1	1487980000	
UR20-PK-2674620000-SP	5	2570120000	
UC20-SL2000-EC-CAN	1	2674620000	
U-CREATE-STUDIO	1	2660130000	
U-CREATE-STUDIO-ANNUAL	1	2722630000	
SD-CARD-8GB	1	2684400000	
BATTERY-CR1220-3V	1	2684410000	
u-link licences: See catalogue 9 - Industrial Ethernet in chapter E, PROCON-WEB licences: See catalogue 10 - Automation and Software tools in chapter G			



Product standard	IEC 61131-2	
EMC	IEC 61000	
ATEX	EN 60079	
UL	UL 121201	
MSIP	Not available	
CCC	Not available	
EAC	Not available	
ABS (American Bureau of Shipping)		Available
BSH (Federal Maritime and Hydrog	graphic Agency)	Not available
BV (Bureau Veritas)		Available
DNV (Det Norske Veritas)		Not available
LR (Lloyd's Register)		Available
RINA (Registro Italiano Navale)		Available
KR (Korean Register)		Not available
NK (Nippon Kaiji Kyokai)		Not available
PRS (Polish Register of Shipping)		Not available
RMRoS (Russian Maritime Register of Shipping)		Not available

UC20-WL2000-AC

A comprehensive automation portfolio

- Automation controller
- Engineering tool u-create web
- System supply of 64 I/O modules
- 2 x 5 A current path

UC20-WL2000-AC





Technical data

System data	
Connection type	
max. number of modules	
Configuration interface	
Processor	
Memory (Flash)	
Real-time clock	
Engineering tool	
Supply	
Supply voltage for inputs	
Supply voltage for outputs	
Feed current for I_{IN} (input current path) , max.	
Feed current for I _{our} (output current path) , max.	
Current consumption $I_{\mathbb{N}}$ (power segment of the field bus coupler), typ.	
General data	
Weight	
Dimensions H x W x D	
Note	

Ordering data Module variants

Automation controller (Web engineering)

Accessories

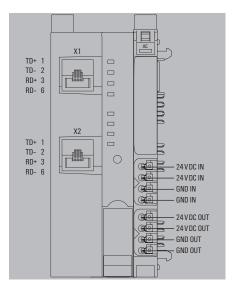
Note

Swievel marker Connection marker for pusher custom printing Connection marker for pusher neutral Module marker for custom printing Module marker for custom printing Thermotransfer version (Material: Polyester) Thermotransfer version (material: polyester) Paper version for Laserprinter USB cable (USB A to Micro USB) Replacement parts Plug-in connector unit Control accessories SD Memory Card Battery for real-time clock

2 x RJ45 plug-in connectors
64
Micro USB 2.0
Dual Core ARM Cortex A9, 624 MHz, 512 Mbyte RAM
4 GB, 32 GB via microSD
Battery buffered
u-create web
24 V DC +20 %/ -15 %
24 V DC +20 %/ -15 %
5 A
5 A
116 mA
327 GRM
120 mm / 52 mm / 76 mm

Туре	Qty.	Order No.
UC20-WL2000-AC	1	1334950000
A termination kit (UC20-EBK-ACC) is included it	n the controll	er package.

Туре	Qty.	Order No.
UR20-SM-ACC	20	1339920000
PM 2.7/2.6 MC SDR	192	1323700000
PM 2.7/2.6 MC NE WS	960	1323710000
DEK 5/8-11.5 MC SDR	100	1341610000
DEK 5/8-11.5 MC NE WS	500	1341630000
THM UR20 GE	1	1429910000
THM UR20 WS	1	1429420000
ESO UR20 DIN A4 WS	10	1429430000
IE-USB-A-MICRO-1.8M	1	1487980000
UR20-PK-1334950000-SP	5	2605360000
SD-CARD-8GB	1	2684400000
BATTERY-CR1220-3V	1	2684410000
u-link licences: See catalogue 9 - Industrial Ethernet in chapter E, PROCON-WEB licences: See catalogue 10 - Automation and Software tools in chapter G		



Product standard	IEC 61131-2	
EMC	IEC 61000	
ATEX	EN 60079	
UL	UL 121201	
MSIP	Not available	
CCC	Not available	
EAC	Not available	
ABS (American Bureau of S	Shipping)	Available
BSH (Federal Maritime and	Hydrographic Agency)	Not available
BV (Bureau Veritas)		Available
DNV (Det Norske Veritas)		Available
LR (Lloyd's Register)		Available
RINA (Registro Italiano Nav	/ale)	Available
KR (Korean Register)		Not available
NK (Nippon Kaiji Kyokai)		Not available
PRS (Polish Register of Shi	pping)	Not available
RMRoS (Russian Maritime	Register of Shipping)	Not available

Optimum visualisation and operation u-view web panels: brilliant pictures meet elegant, flat design

Comfortable web panels simplify the monitoring and control of machines and systems. u-view web panels from Weidmüller offer excellent image quality and can be used in an industrial environment without any restrictions.

The u-view series comprises three product lines:

- ECO (resistive web panels) in 4.3", 7" and 10.1"
- BASIC (resistive web panels) in 7" and 10.1"
- ADVANCED (capacitive web panels) in 7", 10.1" and 15.6"

All panels offer convenient configuration options for accessing different web servers via modern browsers. This makes them ideally suitable for future-oriented web applications, especially for web-based visualisation solutions with u-create PROCON-WEB.

u-view web panels feature a particularly flat design, a robust housing and IP66 protection on the front.





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Comfortable configuration

Optimized for u-create PROCON. WEB and other web technologies

u-view web panels are quick and easy to configure and can therefore be set up intuitively.

Attractive design

All u-view web panels come with particularly flat and space-saving housings.

Intuitive touchtechnology

High compatibility

u-view web panels can be used in a wide variety of applications thanks to their modern web technology based on HTML5.

Great performance

First-class image quality and powerful processors make working with u-view web panels particularly enjoyable.

Flexible implementation of visualization, control and IoT applications **Reliable Industrial PCs for your automation**

High-performance IPCs and Panel PCs enable the flexible control, operation and monitoring of machines and systems. u-view IPCs and Panel PCs from Weidmüller are known for their high reliability and are designed for state-of-the-art visualisation, control and IoT applications.

The u-view IPC and Panel PC series use the latest, passively cooled Intel® Atom™, Celeron[™], and Core[™] i-processors. By selecting from high-quality aluminium housings in various sizes, a wide range of interfaces, and modern operating systems, you can build IPCs that optimally fit your requirements. The Panel PCs close the gap between IPCs and HMIs by combining the high-quality display technology of u-view HMIs with the performance of state-of-the-art hardware.

Long-term available components and highest demands on processing and design make the u-view portfolio the optimal hardware for your future-oriented visualization, control and IoT applications.



A comprehensive automation portfolio



Η



Flexible application range

u-view IPCs and Panel PCs are perfectly tailored for state-of-the-art visualization, automation and IoT applications and support Windows and Linux operating systems.



Scaleable performance

The different performance classes provide a broad selection of hardware for an optimal fit to your applications.



High-quality finish for industrial use The sturdy aluminium housings meet the highest quality requirements and enable the passive cooling of IPCs and Panel PCs through intelligent heat management.

1000



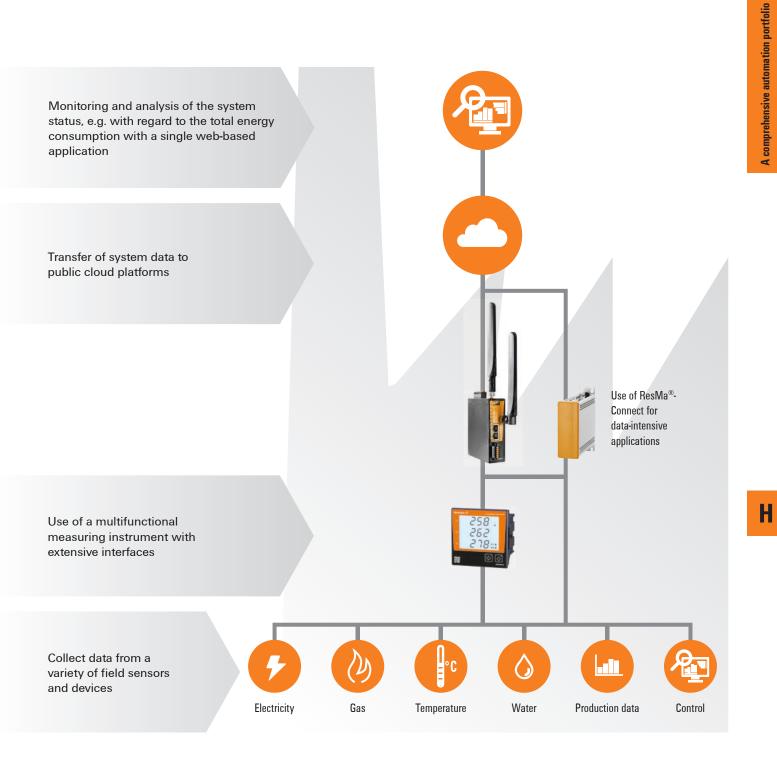
Integration of existing components into IoT networks Complete application representation for the IoT gateway

In order to be able to use all the advantages of Industrial IoT, the consistent monitoring of all system components is required in addition to networking. We offer you a convenient retrofit solution which, as well as recording energy and machine data simply and with flexibility, also handles the pre-processing and storage of this data as well as its forwarding to your own IT or cloud systems via network or mobile phone. Using the gateway as an edge computer helps reduce the load on the cloud, simplify data processing and improve overall equipment effectiveness (OEE). Thanks to the combination with powerful data analysis tools such as ResMa, which are also available as cloud services, we can provide you with all the necessary system components from a single source.

The particular benefits:

- Cable savings, since the sensors are connected directly to the measuring instrument
- Ready-to-use data logger with standard Modbus interfaces
- The pre-processing of data in the gateway reduces cloud expenses







More products in our online catalogue: catalog.weidmueller.com

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- Enables machine data acquisition and provides access to field devices and PLC's via various protocols and interfaces
- interfaces to your own IT systems as well as to common cloud systems
- data traffic reduction through preprocessing on edge via the open IoT standard Node-RED
- Secure and easy remote maintenance with Weidmüller u-link remote access Service
- $\bullet\,$ Integration of most common communication interfaces in small design
- $\bullet\,$ D10pen programming platform Node-RED with strong community support



Technical Data

lechnical Data	
Interfaces	
Digital inputs	1x, 19.2–28 V high; max. 1 A
Digital outputs	2x, >10 V high, <3.6 V low; max. 30 V DC
Ethernet ports	2
RJ45 ports	10/100BaseT(X), auto negotiation, Full-/halfduplex mode,
	Auto MDI/ MDI-X port
Serial port	1x RS232/RS485
USB port	1x USB 2.0 (Type A; max. 500 mA)
System data	
Real-time clock	Capacity buffered (max. 5 days)
Processor	Dual Core ARM Cortex A9, 600 MHz
Memory (Flash)	4 GB
Memory (RAM)	1 GB, DDR3
VPN	
u-link	OpenVPN-based remote access service via the
	Weidmüller u-link cloud
Technical data	
Housing main material	Metall
Weight	412 a
Dimensions W x H x D	35 x 125 x 105 mm
Protection degree	IP20
Type of mounting	DIN rail
Environmental conditions	
Operating temperature, max.	60 °C
Operating temperature, min.	- 20 °C
Humidity	5 to 95 % (noncondensing)
Storage temperature, max.	85 °C
Storage temperature, min.	- 40°C
Power supply	
Supply voltage	24 V DC
Voltage supply range	Voltage type DC
0 11 / 0	Voltage, min. 19.2 V
	Voltage, max. 28 V
Current consumption	24 DC 0.24 A
Reverse polarity protection	Yes
1 /1	plies for IOT-GW30-4G-EU - 2682630000)
Frequency band	LTE: 2100MHz (B1), 1800MHz (B3), 850MHz (B5), 2600MHz (B7),
1 7	900MHz (B8), 800MHz (B20), 2600MHz (B38), 2300MHz (B40),
	2600MHz (B41), UMTS/WCDMA: 2100MHz (B1), 850MHz (B5),
	900MHz (B8), GSM/GPRS/EDGE: 900MHz (B8), 1800MHz (B3)
Wireless module	LTE / HSPA+ multiband wireless module (4G / 3G / 2G) for fast
	wireless Internet access
LTE category	CAT 4
Download rate, max.	150 Mbps
Upload rate, max.	50 Mbps
opious futo, mun.	00 mppo

Approvals		
EMC standards	EN 61000-6-3, EN61000-6-2	
Shock	according to IEC 60068-2-27	
Vibration	according to IEC 60068-2-6	
ROHS	Conform	
Classifications		
ETIM 6.0	EC001099	
ETIM 7.0	EC001099	
eClass 9.0	19-17-01-00	
eClass 9.1	19-17-01-00	
eClass 10.0	19-17-04-90	
Guarantee		
Time interval	3 years	

Ordering data

Version	Туре	Operating temperature	Order No.
loT Gateway, Fast Ethernet, IP20, -20 °C60 °C	IOT-GW30	-20 to +60 °C	2682620000
loT Gateway, Fast Ethernet, IP20, -20 °C60 °C	IOT-GW30-4G-EU	-20 to +60 °C	2682630000

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Energy management software

Introduction	1.2
ecoExplorer go – configuration software	1.4
ResMa - process and energy optimisation	1.6

Data processing is becoming increasingly important in an industrial context. We are your partner for all matters relating to software application matters, and will provide you with suitable software solutions as necessary. With our comprehensive expertise, we ensure a smooth interplay in digitalised industry – from the recording of data at the field level and distribution using our industrial ethernet components through to comprehensive data processing in the fields of industrial analytics and Energy Management.



Industrial software solutions need to have a large number of specific properties in order to provide the greatest possible benefit. We will advise you on the selection and application of your software with our broad expertise. The focus for us is on the following factors:

Availability

Our high standards of quality guarantee error-free data processing, a high level of availability and long-term benefit.

Security

With all of our projects for customers we tackle the growing danger of attacks from hackers with a particularly thought-out approach. In this way we ensure the greatest possible security before, during and after implementation.

Data storage

Our software solutions allow you to reliably store data within your own network without needing to rely on cloud-based services.

Scalability

The scalability of our software solutions makes it possible to adapt the growing demands of your company at any time.

User-friendliness

Well thought-out and practical operation in the field plays a particularly important role for us. We focus on operating concepts that are tailored precisely to the location of use, and promote efficiency and productivity.



Conveniently record and clearly display measurement data

ecoExplorer go simplifies parameterisation and visualisation



Quick commissioning

The user-friendly interface of ecoExplorer go allows quick connection and configuration of the measurement devices.

With the ecoExplorer go, you can easily create a commissioning report that can be used to carry out a connection check, thereby verifying the correct functioning of the devices.

Quick insight

For an efficient energy management, the further processing and evaluation of energy and measurement data for the power quality is of key importance. ecoExplorer go enables initial analysis of the energy grid.

Power quality report

With the ecoExplorer go and our EA750, you can monitor the voltage quality of the whole system, and with the report generator you can generate network quality reports according to PQ standards like EN 50160 or EN61000-2-4.

Hardware- Requirements	 CPU: x86_64 Dualcore, >= 2,0 GHz, >= 8 MB cache Min. 8 GB Memory Min. 16 GB free hard drive space (demand dependends on data retention)
Data storage	 Live visualisation of measurement data Reading the device memory (if available) Creation of CSV files
Fielddevice- Configuration	 Local backup of the field device configuration Graphical configuration of Energy Meters / Energy Analysers Management of the field device memory (when available)

We reserve the right to make technical changes.

The visualisation of energy consumers is a central principle to make production sites more efficient.

Many of our energy measurement devices have a very simple user interface for reasons of clarity to allow the display and parameterisation of the measured data directly on the device. ecoExplorer go is a PC-based software which allows you to access your devices quicker and more simply and conveniently than before. Thanks to the intuitive user interface, users can configure the measurement devices quickly and easily and display the measured data clearly.

ecoExplorer go has been tailored to the use of measurement equipment in the energy sector. This guarantees that it provides optimum performance in practice.



You can find the download for the software ecoEcplorer go here: www.weidmueller.com/ecoexplorergo

2 W () () () () ()	
Projects X	Welcome Window × Overview Window × GraphDesitop Window(EM_WM) × 🔁 Configuration(Device-1) × < + >
E EM_WM Ready B	
B-G By Type	Transmit Transmit to Reload Factory default Save to file Load from file
By 1900 Energy Meter 750 -24 -230	Identity LI
Device-1	Transformer Primary Secondary
Energy Meter 0370 CBM	Phase mapping voltage transformer 400 V 💌 🌒 J 400 V 💌
- Jasic Templates	Meanungvorlarts Ourrent transformer 250 A × ● / 1 A × ●
🕀 🔁 Graph	Noninalvalues Currex characterise 1 250 Ph 21 0 11 1 Ph 21 0
🛞 🎦 Topology	RCM configuration
Exports & Reports	Averaging intervals L2
🗈 🐻 Database (FieD6)	Recording configuration Primary Secondary
	time Vokage transformer 400 V v 🖉 J 400 V v
	value adjustment 1/0 confirmation 250 A x 🕒 / 1 A x
	Comparators
	Serial ports to configuration -L3
	Email Primary Secondary
	drag indicator Voltage transformer 400 V × 40 / 400 V × 400
	deplay configuration
	Passwords Current transformer 250 A 🛫 🥥 / 1 A 🛫 🥥
	Bacnet
/alueExplorer Window X	SMP
Inline Historical values	1/0 naming L4
Device-1	Primary Secondary
Power	Current transformer 5 A 🗶 🕥 / 5 A 🗶 🥥
Energy	
Consumed Active Energy	
Supplied Active Energy	15
Active Energy	Primary Secondary
E G Active Energy	Current transformer S A 🙁 🙆 / S A 🙁 🍎
• L1	
 L2 	
• 13	
e Sm11-13	16
	Primary Secondary
E Active Energy Tariff 1	Current transformer SAY OJ SAY
E Active Energy Tariff 2	
E Active Energy Tariff 3	
E 🛄 Active Energy Tariff 4	N

Software for process and energy optimization Optimize your processes with the intelligent energy management that can be combined to Industrial IoT

The use of energy and resources in industrial production is a cost factor that grows with increasing automation. Resourcemanagement with IIoT supports all tasks for an efficient and transparency way to pursue your processes more sustainably and economically.

Resource management ResMa[®] combines the evaluation of energy and process data with IIoT platform solutions and offers a total system for consistant and analyzing machine data and using the knowledge for the optimization of processes or for new services. This makes more possible than pure energy management.

The modular and preconfigured system variants for the standard Resma[®] use cases enable the flexible and fast implmentation of your projects - whether in production, industry or distributed infrastructures. In addition, open interfaces allow simple and cost-effective integration into the existing IT environment. We enable you to make optimal use of your data, uncovering potential and increasing your productivity.

Your benefits at a glance



Recording of production data The simple collection of data from different machines and systems enables the collection of production data. Thus, complex key figures can be calculated and plausibility can be configured to optimize production processes.



Automatic reporting For standardized reporting, individual energy reports or productionrelevant evaluations can be sent automatically. In addition, the interactive documentation within

the system supports the exchange

of information between users



Reduction of costs

With our solutions, energy and process data become meaningful key figures. In this way, you not only reduce costs, but also optimize your processes, increase availability and reduce the use of resources..

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Real-time alerting

States, limit and setpoint values are continuously monitored and show abnormalities in real time in order to avoid running and downtimes. This information can be conveniently forwarded to users.



Simple system integration Open to all measurement systems and easy integration of existing systems, enables uncomplicated connectivity for data exchange with ERP/MES systems or other databases.



Certified acc. to ISO 50001

DIN EN ISO 50001 compliant management certified by TÜV-Süd and listed by Bafa. Concrete measures can be documented and achieved goals can be evaluated. A diverse system that supports you in recognizing and documenting energetic and process-based potentials and deriving measures for optimization. For this purpose, a number of special and extensive evaluation options are available.



Transparency of production Acquisition of

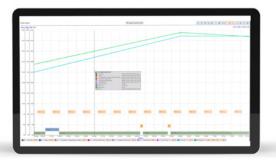
- Electricity, gas, water, heat, air consumption
- Order-related quantities and material input
- Machine and equipment performance

In addition, you can call up many compression values for all measured variables: Min, Max, Mean, Sum etc.

Analyze processes easily and efficiently

Detailed analysis via interactive, adaptable charts for optimal display

- Generation of meaningful key figures including production parameters
- Specific evaluations, which, in addition to the use of energy, also include the quantities of raw materials used and their quality characteristics





Less effort, more control

Automated evaluation

- Representation of energy flows via Sankey diagrams
- Use of mobile devices for fast notifications and status queries
- Central monitoring of all production halls or branches for cross-site benchmarking

ResMa® Base Package Evaluate data - plan optimizations

Basic package for the preparation, presentation and analysis of data from the production environment

- Identification of weak points and causes with fluctuating process quality
- Documentation of the entire consumption
- Reduction of personnel expenses through standardized reporting
- Simple operability with high functionality at the same time
- Dashboards for a clearly resource and consumption
 overview



Optionally extend your ResMa® Base Package

ResMa® energy management package

DIN EN ISO 50001 certified energy management system



- Reduction of CO₂ emissions as a contribution to environmental protection
- Documentation of the measures carried out with the associated savings with the help of PDCA cycles
- Consideration of different tariffs for the presentation of costs
- Easier identification of new savings potentials via load distribution analyses
- Automatic reporting according to individual report templates

ResMa® production package

For a detailed analysis of machines and systems



- Increase process stability to reduce rejects and increase quality
- Reduction of the use of resources (material and energy) for cost savings
- Statistics on the causes of downtime as a basis for a cost analysis
- · Increase availability and productivity to maximize profits
- Optimization of productivity through cross-site benchmarking at the product level and with order reference

Centralized monitoring of multiple locations

Gateways for cross-premises applications

By installing gateways in each site, multiple sites can be centrally monitored. Fully configured data collectors are used as IPC (IPC-PLC Connector) or as easy-to-install software (PLC Connector) for various industrial-grade hardware to record and temporarily store data from machines or energy meters on site. These are transmitted via the Internet in encrypted form to the ResMa[®] server. This prevents a data failure if the network, server or Internet are not available.

ResMa® IPC-PLC Connector

IPC as data collector and gateway



ResMa® PLC Connector Docker application for embedded devices

- Extensive selection of industrial communication protocols

 Simatic S7/TIA, Beckhoff ADS, Codesys, Mitsubishi
 Melsec, Modbus-RTU/TCP, OPC-UA, etc.

 User friendly and easy configuration interface
- Installed on an IPC, directly for mounting in a control cabinet
- Existing energy meters can be integrated
- Encrypted transmission over the network/Internet to the ResMa[®] server
- Resource-saving application in the form of a Docker container
- for embedded or Windows devices (from Raspberry I)
- Web interface for configuration and diagnostics
- Supports Modbus RTU/TCP and OPC-UA for pairing devices
- Also supplied together with Weidmüller u-control as an industrial-grade gateway with its own I/O connection
- Encrypted transmission over the network/Internet to the ResMa[®] server

Entry-level version for small applications

For smaller applications, the ResMa® Compact system variant enables a costeffective entry into the acquisition and evaluation of measured values.

System variant ResMa® Compact

- up to 500 data points (measured variables)
- offers reduced functions of the ResMa[®] Base Package and the ResMa[®] EnMS Package
- Installation on an IPC, directly into a control cabinet
- Existing energy meters can be connected
- Additional sensors or simple control systems can be connected via Modbus

A comprehensive software portfolio

A comprehensive software portfolio

A comprehensive software portfolio	u-create PROCON-WEB embedded System	J.2
	u-create PROCON-WEB SCADA	J.4
	u-link – Remote Access & Cloud-Services	J.8
	Industrial Analytics	J.10

Future-proof visualisations for IIoT applications u-create PROCON-WEB Embedded Systems – the platform-independent HMI software

In modern IIoT and automation applications, machine data must be available locally and in the cloud for all users. To ensure task-oriented provision and intuitive use, the relevant information needs to be collected and visually prepared.

PROCON-WEB Embedded Systems is a platform-independent visualisation solution ideally suited for use in modern IIoT applications. Due to its low system requirements, it can be integrated on all embedded devices up to the cloud level. This is enabled by container technologies, for example. The HMI is conveniently accessed via HTML5-compatible browsers and can therefore be accessed from a wide variety of end devices.

Your special advantage:

- · Portable and easy-to-parametrise HMI and IIoT solution
- · High performance with low resource requirements
- Compatible with devices with OPC UA server, Modbus interface, u-control and
- others. Dynamic web interface with adaptive design and customisable control elements





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Many visualisation features

Predefined control elements, user and rights management, multilingualism, data recording, recipe management, alarm and message processing, and many other features make PROCON-WEB Embedded Systems versatile.

Maximum flexibility

PROCON-WEB Embedded Systems can be implemented independently of hardware and operating system. Web-based visualisation, support for mobile devices, and open communication standards increase flexibility.



Efficient project planning

Features such as the class-instance concept and automation objects with structure support speed up project planning. Scripting and customisable control elements increase flexibility for special requirements.

Ordering data

Туре	Number of process variables, max.	Configurable target systems	Operating system	Order No.
PWEB-DESIGNER-ES-COMPACT	2000	Embedded Systems	Windows	Free to use
PWEB-DESIGNER-PRO	Unlimited	Embedded Systems + SCADA	Windows	2857650000
F WED-DESIGIVEN-PNU	Uninniteu	Embeuded Systems + SCADA	VVIIIUUVVS	200700000

Operate machines and systems via browser interfaces u-create PROCON-WEB SCADA – the future-proof visualisation solution

Easily scalable and platform-independent HMI and SCADA solutions can be used flexibly and make relevant machine data available everywhere. They facilitate fault processing as well as data recording and management to support the control of complex processes.

PROCON-WEB SCADA simplifies the project planning of modern multi-touchcapable user interfaces for automation. The integrated web server enables the use of all HTML5-capable browsers without special plug-ins. The comprehensive portfolio of communication drivers facilitates the connection with all common control systems. Standardised open interfaces guarantee problem-free integration into any IT surroundings.

Your special advantage:

- Easy creation of modern user interfaces without knowledge of web technologies
- Dynamic web interface with adaptive design and customisable control elements
- User and rights management including geographical rights assignment
- Multilingualism thanks to Unicode standard





Future-proof solution

Intuitive user interfaces, configurable elements for gesture control and the use of state-of-the-art web technologies make the solution particularly future-proof.

Efficient project planning

The class-instance concept and automation objects with structure support accelerate project planning. Scripting and customisable control elements increase flexibility for special requirements.



u-create PROCON-WEB SCADA

Ordering data

BCADA number licences University University University University Display PVIIS SCALAR H5 00/0 500 5 Windows 28574000 PVIIS SCALAR H5 00/0 500 10 Windows 28574000 PVIIS SCALAR H5 00/0 500 20 Windows 28755000 PVIIS SCALAR H5 00/0 100 2 Windows 28752000 PVIIS SCALAR H1 00/0 100 10 Windows 28752000 PVIIS SCALAR H1 00/0 100 Windows 28752000 2 PVIIS SCALAR H1 00/0 100 Windows 28755000 2 PVIIS SCALAR H1 00/0 200 2 Windows 28754000 PVIIS SCALAR H1 00/0 200 2 Windows 28754000 PVIIS SCALAR H1 00/0 200 10 Windows 28754000 PVIIS SCALAR H1 00/0 200 10 Windows 28754000 PVIIS SCALAR H2 00/0 200 10 Windows 28754000 PVIIS SCALAR H2 00/0 2000 <th>Туре</th> <th>Number of process variables, max.</th> <th>Number of devices</th> <th>Platform for runtime system</th> <th>Order No.</th>	Туре	Number of process variables, max.	Number of devices	Platform for runtime system	Order No.
PVR:85.00A.HT:500/5 500 5 Windows 287.43000 PVR:85.20A.HT:501/0 500 20 Windows 287.35000 PVR:85.20A.HT:501/2 500 20 Windows 287.35000 PVR:85.20A.HT:100/2 1000 5 Windows 287.35000 PVR:85.20A.HT:100/2 1000 20 Windows 287.35000 PVR:85.20A.HT:100/2 1000 20 Windows 287.35000 PVR:85.20A.HT:100/2 1000 20 Windows 287.55000 PVR:85.20A.HT:200/2 2000 2 Windows 287.55000 PVR:85.20A.HT:200/2 5000 2 Windows 287.55000 PVR:85.20A.HT:200/2 5000 2 Windows 287.55000 PVR:85.20A.HT:200/2 5000 2 Window	SCADA runtime licences				
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u-link Remote Access Service – one tool for all cases Advanced functions for convenient remote access management

The remote maintenance of machines and system facilitates is often laborious and time-consuming. In addition, there is the demand for a targeted and secured functional connection to the associated IT systems. For many users

these two challenges are a major obstacle for the global connection of systems.

u-link guarantees fast and secure access to machines and system facilitates and at the same time enables efficient management of production facilities, user clients, access rights or firmware versions. The intuitive u-link Web portal can be configured quickly and easily without expert knowledge and adapt it to specific processes. Secured servers in Europe provide a online platform that monitors the conformity between different IT systems during remote maintenance.

Remote Access head office of manufacturers



Individual system management

u-link can manage users and groups as well as their access rights according to individual specifications. These include group allocation and access permission to production facilities.



Low configuration effort

With the intuitive user interface and without specific IT knowledge, you can easily connect routers and clients to each other. With u-link, you can quickly establish a several systems network.



Secure remote access and remote diagnosis

Remote access to machines and systems is provided worldwide everywhere via secure VPN connection. The high availability of the servers grants secure access to your systems at all times.

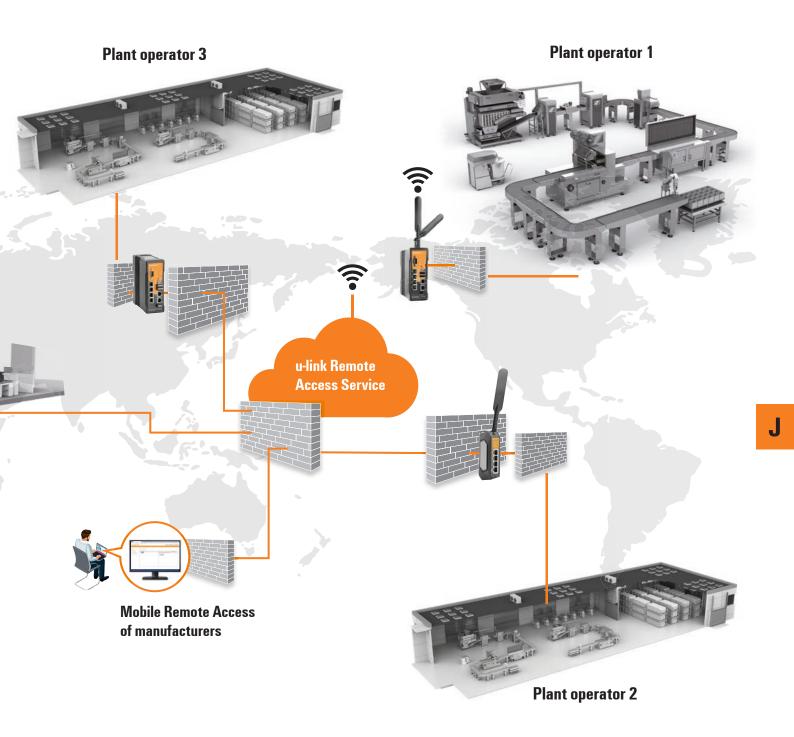


Status monitoring and status message

Weidmüller Heartbeat can be used to report the availability of a router to u-link. It facilitates status monitoring and enables status messages from the installed router.

u-link.weidmueller.com

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Weidmüller Industrial AutoML The most important facts at a glance

Build and deploy end-to-end machine learning model solutions faster. You only need your domain knowledge!

With Weidmüller Industrial AutoML, you can easily use advanced analytic functions to optimise operations, improve product quality and enable new business models. As a machine or process expert, you can build and run machine learning models quickly and easily without expert knowledge in data science. As machine builder, the AutoML tool enables you to transform your data and domain knowledge into ML models that add value to your business. In manufacturing environments, the models can be used in order to provide machine operators with real-time analysis and insight during operation, for example. The tool consists of 2 modules: ModelBuilder, which is used to build the models, and ModelRuntime, which is used to run and configure the models.



The benefits for you



Accelerated innovation

Leverage your existing machine data and domain knowledge and benefit directly from advanced analytics. Maintain sovereignty over your own data.



End-to-end solution Build and continuously improve ML models with AutoML ModelBuilder. Make these ML models run with AutoML ModelRuntime, on-premises or in the cloud.



Build customer relationships and new business models Increase customer satisfaction with improved products and services. Get a better understanding of your customers' needs.

Benefit from Machine Learning without prior knowledge in data science

Weidmüller Industrial AutoML in a two-minute animation - get a compact overview, a brief explanation of how it works and the key benefits.



A comprehensive software portfolio

Weidmüller Industrial AutoML ModelBuilder

From data to model in just a few steps

Feature of the ModelBuilder

The AutoML service is available as a cloud-based solution. On the basis of prepared data, the user is guided through the following essential building blocks of the tool.



- Import and explore your machine and process data
- Assess your data based on automatically generated quality indicators (e.g. missing values)
- Enrich your data by creating custom features
- Contextualize your data e.g. by defining what's normal behavior and what isn't
- Choose the kind of machine learning model to create e.g. anomaly detection or classification
- The tool then automates the model creation process, including feature engineering, required preprocessing and post processing operations
- Select the most appropriate model of those created, based on criteria such as model performance and plausibility based on model explanation

Weidmüller Industrial AutoML ModelRuntime For flexible use in the cloud or on-premise

Features of ModelRuntime

AutoML ModelRuntime makes it easy for an organization's machine or process experts to bring ML models directly into the application - with complete flexibility in the cloud or on-premise.

- Deploy your models where you need them: on-premise or in the cloud
- Connect your machine to ModelRuntime by configuring data sources e.g. a database
- Import the created models and assign them to the specific machine. Multiple models can be used for the same machine
- Schedule the model execution according to your requirements
- Visualize results using the embedded GUI
- Use and configure ModelRuntime programmatically by using the provided interfaces
- Put model results into actions by importing model outputs into the existing machine or manufacturing systems



Applications in practice

Applications in practice

Implement your own individual energy management system	К.2
Intelligent energy management in practice	К.4
Collect energy and process data with $ResMa^{\circ}$	К.6
Modernise large power grids	К.8
Reliable monitoring of grid quality	K.10
Reliable residual current measurement	К.12

Κ

Implement your own individual Energy Management system With our integrated expertise from a single source

Energy Management is a triad of recording all relevant energy consumption data, analysing the information obtained, and comprehensive consulting on possible saving potential. We at Weidmüller see the development of an Energy Management system as a holistic task which combines expert advice with intelligent hardware and software solutions to form a strong unit which is modular in design and therefore tailored to your requirements.

Integrated planning of the approach

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Selection of suitable products, solutions and functions

Modular adaptation to your requirements



Hardware components

Extraction of exact measurement data for analysis

Use our comprehensive hardware portfolio of selected "Total Energy Monitoring" components for energy consumption measurement and monitoring, integrated analysis of the quality of electrical supply networks and for efficient, convenient provision of measurement data.

Software and controlling

Determination of relevant indices for planning

The software modules of the Weidmüller Energy Suite meet your requirements, from the sensor level to the cloud. Parameterise our field devices using ecoExplorer go, digitise the data using the u-create data hub, conduct standardised analyses using the u-create ResMa® or forecast load peaks with the u-create energetics System. The perfect interaction between Weidmüller field devices and the components of the Weidmüller Energy Suite ensures the greatest possible predictability, even for complex requirements.

- Energy meters
- Energy analyser
- Energy loggers
- Measurement converter disconnector terminals
- Current transformers
- Power supply solutions
- Connection technology
- u-mation toolboxIndustrial communication
- infrastructure

 Customer-specific
 - Plug&Play solutions
- Rogowski coils

- Recording process and energy data
- Registering energy and raw materials prices
- Forecasting costly load peaks
- Cost centre analyses
- Long-term data archiving
- Database interfaces for MES/SCADA systems

Simple, cost-effective integration into existing systems

Broad range of universal-fit connection solutions to connect existing hardware

Use of high-quality, tried and tested standard components

Well proven components that are tailored to each other from the Weidmüller standard range

Option of implementing tailored solutions

Customer-specific assembly and construction of components to meet individual requirements

Compact – IPC-based entrylevel solution

Record, automate and bundle measurement data on a central basis. Create transparency about energy media and draw up initial reports.

Server – Extensive scalable

Strong integration into your own infrastructure for extensive data collection. Ideal for cross-site Energy Management. Κ

Intelligent energy management in practice Insights into Weidmüller's "transparent factory"

Weidmüller has a long tradition of handling energy and resources responsibly. One perfect example for the practical implementation of our collective know-how and the effects which can be achieved is our production hall at the Detmold site. We can use specific examples to show interested customers how well modern Energy Management works in practice.

From Production. For Production.

Anchoring Energy Management

All employees are given comprehensive training to increase awareness of conserving energy as a resource. Projects to optimise procurement, increase production efficiency, for new buildings and renovation and handling Energy Management tools are carried out in order to reduce energy consumption even further in future.

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Transparency at every level

Depending on the degree of detail required, we measure Energy flows at all five levels in our "transparent factory":

- Measurement at the point of interface with the grid in order to continuously monitor the power quality
- Measurement at factory level to optimise whole sites and departments.
- Measurement at production line level to optimise individual production areas
- Measurement at machine level to optimise complex process structures
- Measurement at machine module level to optimise individual machine and plant elements

Production area

Employees in production

Annual CO2 saving





155 people approx. **1.665** t CO₂

Needs-based lighting control

Reduction of basic lighting helps reduce the basic load. Where more light is required, lighting positioned as required provides optimum adapted lighting. The use of efficient control and lighting systems minimises the energy required further still.

Systematic minimisation of energy losses

Load-optimised main consumers guarantee optimum energy use with reduced energy peaks Systems in standby mode are switched off. This saves energy and helps reduce the basic and peak loads. Transformers are installed at the performance hotspots near the main consumers and fitted with efficient technology to avoid conversion losses. Distribution routes in the low voltage sector which are as short as possible also minimise conductor losses.

Visit our "transparent factory" with its multi award-winning energy efficiency measures.

Arrange an appointment with your sales engineer



Efficient use of compressed air

Cascaded compressors are intelligently controlled to ensure the network pressure built up is only what is required. Cables are carefully routed, sealed and constantly checked to minimise cable losses. Employees are made aware of the most efficient use of compressed air to reduce the consumption of compressed air further still.

Efficient heating and cooling

The excess heat generated by processes is transferred to the heating system. The heat extraction reduces the burden on the machine cooling system. A free-cooler uses the ambient air for cooling with minimum use of electrical power and even takes over all cooling work in winter. The core processor heat created when generating compressed air is also used and fed back into the heating system.













Energy and process data acquisition - step by step More than energy management: ResMa[®] helps to optimize right up to the process level

Good energy management is the result of the interaction between people and technology. Both sides contribute their expertise. This report outlines what to expect from a good system.



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It is more important than ever to reduce a company's energy consumption and to increase efficiency with targeted measures. High energy costs and legal regulations require a targeted and structured approach.

According to company information, Weidmüller GTI's ResMa® energy management system helps to record and monitor energy flows and process data as well as evaluate and optimise efficiency. "The generation of meaningful EnPIs (KPIs) including production parameters and their monitoring using energy monitoring is the basis for the reduction of daily monitoring expenses", explains Weidmüller GTI in a press release.

Consumption overview

The consumption overview and the resulting energy balancing means that approaches can quickly be determined with the aim of expanding the measuring equipment or introducing concrete saving potential. These approaches are documented in the PDCA cycle and then reviewed. Interactively adaptable charts help provide a detailed analysis; they allow for the optimal representation of correlations for every situation and can be saved for further editing, including by other colleagues. Customable reports balance energy and KPIs from production in a clearly arranged layout.

Energy management according to ISO 50001

With the ResMa® energy management system, Weidmüller GTI Software is offering a comprehensive software solution for energy management according to ISO 50001, The energy and resource manager allows manufacturing companies and other organisations to systematically and continually increase energy efficiency. The system supports all tasks for efficient and active energy management, refers to factors that can be influenced by the company and can be adapted to individual requirements. At the same time, the solution also includes the necessary support for the integration into existing automation technology, control technology or building automation and for the connection of the company's IT systems. Customer-specific requirements regarding energy planning, peak-load optimisation or on-demand control can be tailored to the customer's needs by means of customised support.

User in Kronach

Horst Scholz GmbH in Kronach, Franconia, uses ResMa® for energy management in multiple production and administration buildings; the company specialises in the production of high-precision plastic parts for microtechnology and medical technology. Because some buildings already had energy meters, these were to be integrated into the system. Additional energy meters were connected via Modbus TCP based on the good network infrastructure that was already in place.

Modbus-TCP

The first step involved the company independently adding all of the meters in its first building to the system. Convinced by the simple connection, the company then equipped the newly constructed building with Modbus TCP-capable meters as well. In order to prevent data loss in the event of a network failure, ResMa®-Connect industrial PCs were used, which are set up close to the measurement technology and which cache the data.

"ResMa[®] allowed us to carry out the step-by-step development of our EnMS on our own and opened up potential for integrating extensive information from production", says Wolfgang Fehn, the management representative for quality and environment at Horst Scholz GmbH.

Process data recording

The third expansion stage has now been implemented, involving the recording of process data from automation technology. For this purpose, Scholz uses three ResMa[®] connectors and a direct network connection to the most important machines. This makes it possible to use extensive data from the production process directly for KPI development and the performance of analyses within ResMa[®].



How can large-scale electricity grids be modernised successfully? Support from Weidmüller with key component

If, for example, the electricity grids of a six-digit square kilometre area need to be renewed, this amounts to a costly infrastructure project. If the substations also need to be modernised and digitalised as part of a sub-project, the control cabinets need to be renewed in their entirety. Experts from Weidmüller support control cabinet builders who specialise in automation in power distribution.



Any control cabinet manufacturer that needs to find a partner whose components comply with regional and national approval regulations for monitoring power quality will find what they are looking for with Weidmüller. With its key product Energy Analyser D550, a multifunctional measuring device for monitoring voltage quality in accordance with IEC 61000-2-4 and EN 50160, among other things, Weidmüller even satisfies the most demanding requirements. Another advantage is the fact that as a major manufacturer, Weidmüller is geared towards being able to supply large quantities at short notice.

Cooperation from the very beginning

When replacing the control cabinets, it is crucial to ensure universal monitoring of the transformers. This is where the Energy Analyser can really show off its strengths. It measures various parameters of the network quality such as short-term interruptions, transients, starting currents, voltage fluctuations or harmonics caused by contamination. It transfers this data via a Modbus interface for evaluation. This provides the company with transparent information about current incidents and allows it to monitor the networks in real time while guaranteeing and monitoring operation. When data is recorded and analysed, it is simultaneously entered into the Industrial IoT, giving the company the opportunity to fully exploit the opportunities offered by digitalisation.

Thanks to its decades of experience, Weidmüller can efficiently support and advise control cabinet builders from the very outset of a project. During a qualification phase for a recent project, Weidmüller initially provided samples so that the Analyser could be put through its paces. This convinced the control cabinet builder just as much as Weidmüller's commercial offer, and led them to include Weidmüller in the tender as a listed supplier. Together they were awarded the contract and were able to implement the project successfully. The project volume for Weidmüller ultimately amounted to a total of 1,400 units.

Overview - a real winner for Weidmüller

- Weidmüller has the right product with the necessary approvals and certifications for monitoring network quality
- Weidmüller provides support right from the start of the project, is on hand to assist in an advisory capacity and supervises the project consistently right through to implementation
- As a large manufacturer, Weidmüller is able to guarantee the delivery of the required high quantities.

Outlook

By providing worldwide support for major projects in the field of power engineering and power distribution, this opens up desirable target markets for Weidmüller. Its extensive portfolio for control cabinet building and power distribution provides control cabinet manufacturers with support on site and establishes Weidmüller in the local energy sector.

Κ

Reliable monitoring of grid quality Certified as class A in accordance with IEC 61000-4-30

There is a direct correlation between the quality of the power supply and the lasting security of supply with no noticeable interruptions. Disruptions and damage are often caused by overvoltage and transients. In addition to a reliable supply, high-quality voltage (* point 2. in the figure) is crucial to the reliable operation of equipment with all of its electronic consumers, such as industrial control units or EDP facilities. The grid operator must keep the voltage and frequency as constant as possible, and is liable irrespective of culpability in the event of disruptions (* point 3. in the figure). Precise analysis and documentation using certified procedures are required in order to achieve the greatest possible transparency regarding energy consumption and voltage quality.

Looking for causes

Voltage quality is becoming relevant for an increasing number of providers and consumers - including in the field of renewable energies. More and more photovoltaic and wind power installations have been connected to the medium-voltage grid over the last decade (* point 1. in the figure). The grid operators are responsible for the operation of medium-voltage grids. They therefore have a significant interest in monitoring the quality of electricity at the point of connection with equipment.

Reliable monitoring and error detection

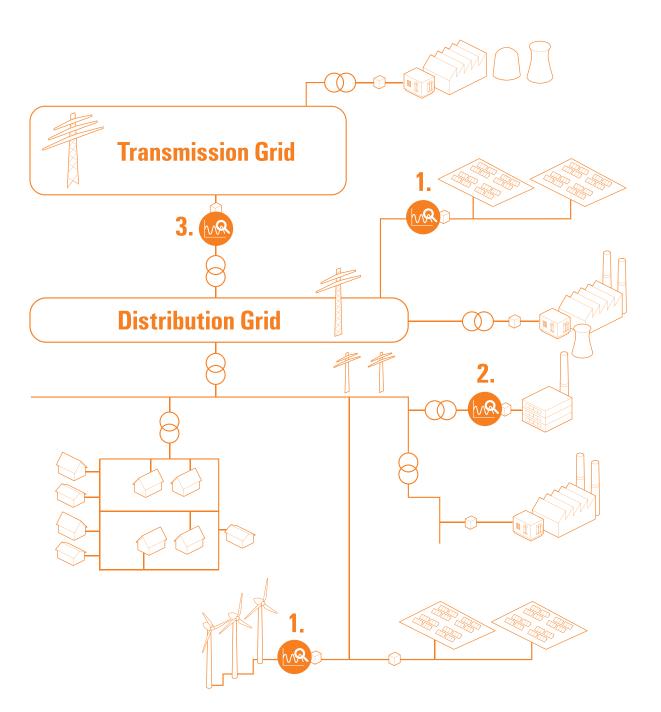
Weidmüller's product portfolio includes the Energy Analyser 750 power quality analyser for comprehensive monitoring. The capabilities it offers allow comprehensive error detection, because in addition to continuously recording consumption it also monitors residual currents. Overvoltage, asymmetries, transients, flicker and other disruption parameters are recorded and analysed. The Energy Analyser 750 complies with all common standards such as EN 50160, IEEE 519 and IEC 61000-2-4, and can be integrated into most communications architectures at low cost thanks to a variety of interfaces.

Generating relevant results

For monitoring it is advisable to use class-A energy analysis devices, which are connected alongside the charging meters. Only analysers that have been certified as class A ensure that the results are reliable, repeatable and comparable. Because regardless of whether you want to hold a "guilty party" to account for damages incurred or identify and remedy sources of disruption as a precaution, this always requires reliable and documented measurements that even stand up in court if necessary.

Detailed insights into equipment

The recording of power quality analysers, which Weidmüller has been selling for years, can also be helpful in this regard. Their extensive analyses and documentation provide a detailed insight into a system. In addition to voltage, frequency and curve shape they also record all forms of disruption. These could be flicker effects or brief voltage drops, which are typical for automated reclosure following electric arc short-circuits. Harmonics from non-linear consumers can also significantly impact the function of other devices. Unlike the basic oscillation in the three-phase system, all of the harmonics that are divisible by three in the neutral conductor reinforce each other instead of cancelling each other out. This can cause the current load on the neutral conductor to rise beyond permissible levels. Harmonics are typically mainly generated by frequency converters as well as surge voltages from switching operations.



- 1. Producer
- 2. Consumer
- 3. Grid operator

Reliable residual current measurement Use of RCM (Residual Current Monitoring) measuring instruments

Residual currents caused by the failure of insulation can constitute a significant risk to safety in electrical systems. Using an appropriate protective concept it is possible to detect residual currents, eliminate insulation faults in good time and therefore ensure the availability of the system.

RCM stands for Residual Current Monitoring and means the monitoring of residual currents in electrical systems. This current is calculated as the sum of the currents of all conductors, apart from the protective earth (PE), which feed into the system. Residual currents are typically the result of insulation faults, leakage currents or EMC filter leakage currents for example.

Whilst GFI devices (ground failt interrupter) switch off the power supply in the event of a certain residual current being exceeded, RCM measuring devices indicate the actual value, record the long-term development and report the exceeding of a critical value. This message can also be used in order to switch off the power supply via external switching devices (contactors, relays). Through the use of residual current measuring devices it is possible to detect and report residual currents in a timely manner. It is possible to initiate counter measures in good time, so that it is not necessary to switch the system off. This facilitates the implementation of measures in the event of slowly deteriorating insulation values or steadily rising residual currents – caused for example by ageing insulation – before the system is switched off.

Further errors that are detectable by a RCM measurement:

- · Insulation faults of lines and electrical operating resources
- Residual currents from electrical loads
- Defective PP power capacitors for the PFC
- · Defective components in switched mode power supplies, e.g. in computers
- Correctness of TNS systems (Terra Neutral Separate)
- Disclosure of impermissible PEN connections
- · Avoidance of neutral conductor reverse currents to grounded equipment

Residual current monitoring in conjunction with energy measurement in combined energy / RCM measuring devices in electrical systems constitutes a measure for fire protection and maintenance prevention. Down times and the associated costs are thereby reduced. Timely and preventative maintenance – facilitated through the information additionally gained from an RCM measuring device – also significantly enhances the efficiency and availability of a system.

Constant RCM monitoring is of particular significance in preventing unwanted surprises in ongoing operation, and provides consistent information regarding the actual status of the electrical system.

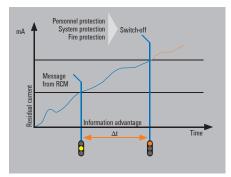


Fig.: Report prior to switching off - an aim of residual current monitoring



Fundamental measuring process with RCM

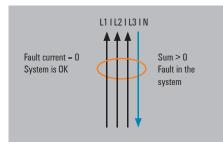
The functionality of RCM measuring devices is based on the differential current principle. This requires that all phases be guided through a residual current transformer at the measuring point (outlet to be protected), with the exception of the protective earth. If there is no failure in the system then the sum of all currents will be nil. If, however, residual current is flowing away to ground then the difference will result in the current at the residual current transformer being evaluated by the electronics in the RCM measuring device.

Typical applications

RCM measuring instruments are mainly used in systems where a high level of availability is required, such as:

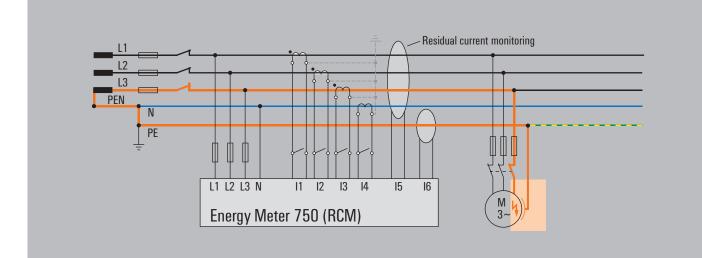
- Data processing centres, production facilities, hospitals, telecommunications
- TN-S systems with strict EMC requirements
- Equipment at risk of fire
- Equipment in cleanroom conditions
- Research facilities, laboratory technology areas

Weidmüller combines Energy Management, grid quality and residual current monitoring in a single system, providing you with a holistic solution from medium voltage down to the individual circuit.



The following measuring instruments support RCM measurement:

- Energy Meter 700-PN
- Energy Meter 750
- Energy Analyser 550
- Energy Analyser 750



Service and support

Service and support

V.2
V.3
V.4
V.6
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Service and support

Our expertise for your requirements

Service connects - worldwide



Automation technology functions are becoming more complex in a globally-oriented world facing ambitious targets in terms of energy efficiency and smart production. We are your equal partners for the best connections in Industrial Connectivity.

Our personal support answers all questions reliably and expertly. During planning, installation or operation our service and support offer is your best companion.

In short: Weidmüller's global service combines our expertise with your requirements.



Your way to our service www.weidmueller.com/service

Engineering services and customised products

Automation engineering and connectivity consulting belongs to our services as well as assembly of engineered products. We also support the process from the idea to the product with our Weidmüller Configurator and the Configure-to-Order process.



Consulting and engineering The challenge for you is reducing costs and increasing efficiency. This requires intelligent, individual solutions. Whether it is modified products, prefitted mounting rails or complete small cabinets – our application centres provide a highly qualified custom-made engineering and production service.



Connectivity Consulting Increase your competitiveness supported by our experts Our drive is to optimise your competitiveness. That's why our team of experts supports you in significantly increasing your efficiency in electrical machine design and control cabinet construction. With proven products and services from the Weidmüller portfolio – and with the experience gained from over 300 projects worldwide.



Assembled terminal rails - Flexibly designed to suit your requirements Your processes in panel building have to be fast, flexible and productive. This is the only way you can cut your costs and increase efficiency. Depending on the application in question, you will have different requirements with respect to the engineering service, delivery speed and flexibility to be provided.



Modified and assembled enclosures - Competitive advantages included

To compete internationally, your plants need to satisfy high standards of safety, quality and performance. The smart combination of consultation, application expertise and industry know-how is our key to finding a custom-fit solution for your application. Reduce costs and increase efficiency.

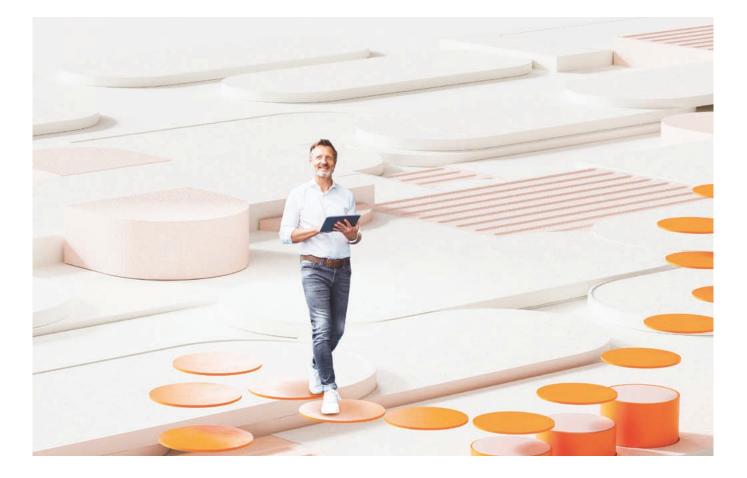


Fast Delivery Service - Your ideas deserve a quick realisation

Obtain offers 24/7 and within minutes, including directly orderable article numbers with our Fast Delivery Service. The Weidmüller Configurator (WMC) for planning and configuration is key for consistent processes. Dispatch your orders in 5 days. Assemble individual terminal strips and enclosures from batch size 1!

Your ticket to the world of digital service

easyConnect - Your Industrial Service Platform



Our cloud-based platform is your ticket to the world of digital services from Weidmüller, and the intuitive and future-proof tool for your way to the Industrial IoT. Realise your use cases easily, consistently and without any relevant prior knowledge, thanks to the perfect interaction of platform, devices and diverse software services.

As an open, modular and perfectly integrable system, the platform is your enabler for a wide range of use cases. Increase your efficiency and unleash your full innovation potential with easyConnect.



Interested in using easyConnect?

Learn how to get started with easyConnect step-by-step.

www.weidmueller.com/easyconnect

Why should you use easyConnect?

- You want to enter your digital transformation step-bystep?
- You want to make the step into Industrial IOT, but have no or little IT expertise?
- You want to use your digital data for smart & scalable services?
- You want to offer digital services (such as customised dashboard) to your customers?
- You want to improve your service offering and efficiency, e.g. through remote access?
- You feel Weidmüller's digital services are interesting, but you have "your cloud" already?



Weidmüller comes up with the solution: easyConnect, the new digitalisation platform. It bundles Weidmüller's digital services at one place in the cloud and connects them with various Weidmüller devices.

With easyConnect you start digitalising your application step-by-step without ballast in a secure way.

The following services are initially available on easyConnect:



Device management

Adding and managing cloud-connected devices is typically the first step in any Industrial IoT use case.

Asset management

The asset management service is a modelling tool that allows users to model their assets and processes and link them to relevant time series data.

Remote access (u-link)

u-link guarantees a quick and secure access to machines and plants while also allowing for efficient management.

Data visualisation

easyConnect data visualisation services enable users to view, monitor and display live and historical data.

AutoML

With Weidmüller Industrial AutoML, you can optimize operations, increase product quality and develop new business models by benefiting from advanced analytics.

Expand the possibilities of our products

Our Support Center provides you with comprehensive, clear and personal assistance



Receive fast and intuitive support to get the most out of our products in your application. In our new Support Center you can search or navigate to the many application notes, product information, video tutorials or software downloads of our products.

- **Everything at a glance** One central support hub, where all relevant information is available
- **Powerful search** Provides filter functions for various types of information and products
- **Different views and navigations** Content provided in views product information, engineering support or software downloads
- More than 170,000 downloads Application notes, video tutorials, templates and examples, user documentation, engineering data, ...
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Explore the world of our new Support Center support.weidmueller.com

Service and support

Service and support

Additional support services



Training and Webinars Stay tuned in a world that is accelerating. In our entertaining interactive webinars, we offer you the opportunity to learn about new products and technology topics and to interact with our experts.



Repairs and replacement parts We offer repair and components for our Workplace Solutions as well as assistance for other Weidmüller products. Find out how our experts can help you with your repair request.



Security advisory board Our Product Security Incident Response Team (PSIRT) continuously informs you about possible securityrelated vulnerabilities of our products.



Engineering data For the quick integration of our products into your design, there are a lot of digital product data for engineering systems like EPLAN, Zuken E3.series, WSCAD and many others available for download.



Product change notifications Technical modifications of our products always available online.



Technical product catalogues Technical data for our entire program in Industrial Connectivity for download in PDF-format.

From the idea to the finished solution

Weidmüller Configurator: intuitive, uncomplicated & fast digital engineering

Digital engineering can be so easy - with the Weidmüller Configurator!

It's a **free to use** software application to easily configure industrial solutions. It features more than **12,000 articles** from multiple product families including rail-mounted components, industrial and excertified enclosures, Heavy Duty Connectors, remote I/O-systems and PCB connectors.

Unleash the full power of digital engineering:

Our application wizards help you choose the right articles. Place, mark or modify them to your needs and get your solution **visualized in 3D** – what you see is what you get!

Our promise: Speed up your solution planning process by up to 70%!

Your benefits:

- **Proven configuration designs in real 3D:** The plausibility and collision check with the complete digital documentation ensures that you can rely 100% on your configuration.
- **Seamless E-CAD Roundtrip:** Interfaces enable the simple exchange of product data between the WMC and all common engineering tools, such as Zuken E3 or EPLAN Electric P8.
- Sample Service & Fast Delivery Service: to support your design-in process, we offer a 3-day sample service for many products. Inquire them directly online for free!
 You want your solution right away? Our Fast Delivery Service guarantees delivery of individually assembled terminal strips or enclosures within a few days.

Get started online now!

The Weidmüller Configurator makes solution planning easy. Visit our website for more information, tutorials and download it for free:

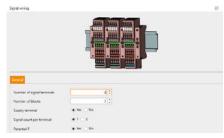


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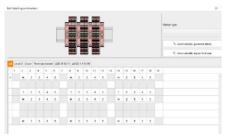
or register on **easyconnect.weidmueller.com** and use it online.





Wizards:

Design complete applications within few clicks – even without detailed product knowledge – for signal wiring, load monitoring, instrument transformers, enclosures, remote I/O-systems and many more.



Assistants:

Finalize your solutions with supporting assistants to add cross-connectors, markers or colors and verify the faultlessness. Automatic modes save valuable time!



1-click documentation:

Get assembly drawings for production – only 1 click. Bill of material – only 1 click. The complete solution documentation including all component data sheets – you 're right, only 1 click!

Index

Index

Index

Index Type	X.2
Index Order No.	X.4
Addresses worldwide	Х.6

B Dimension Dimens	Туре	Order No.	Page	Туре	Order No.	Page	Туре	Order No.	Page	Туре	Order No.	Page
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EN CONNECTOR CUMERET AT 18 8000100396 E21 DT-6V/30 288222000 H.24 PVREES-RT-20007 288735000 16 UPC2PK-287422000.5P 2865170000 H.11 EN 1104TU-2P 7760051002 8.4 DT-6V/3046-6U 28823000 17 PVREES-RT-20007 288735000 16 UPC2PK-2874220005 PS2012000 H.11 EN 1114TU-2P 7760051001 8.4 K VPREES-RT-60/10 2887220000 H.01 UPC2D-KA274220005 PS20120000 H.11 UPC2D-KA27422001 1339822000 H.11 UPC2D-KA27422001 1339820000 H.11 UPC2D-KA27422001 1339820000 H.11 UPC2D-KA2742001 1339820000 H.11 UPC2D-KA2742001 1339820000 H.11 UPC2D-KA2742001 1339820000 H.11 UPC2D-KA2741201 1339820000 H.11 UPC2D-KA2741201 1339820000 H.11 UPC2D-KA2741201 U	F			IE-USB-A-MICRO-1.8M	1487980000	H.7	PWEB-ES-RT-1000/10	2857360000	J.6	UR20-PK-2476450000-SP	2485280000	H.7
ENCONNECTOR VOLTAGE ATTR 8000100997 E21 PTCV3394GEU DTCV3394GEU 286230000 L7 PVEBESRT200/10 285740000 J.6 UP205NACC 333820000 H.1 EN110FTU2P 7760051002 66 MITOTY3794GEU 286230000 L8 UP205NACC 1338920000 H.1 EN110FTU2P 7760051001 64 KXAA 510005459/HG 285720001 J.6 UP205NACC 1338920000 H.1 EN110FTU2P 7760051001 64 KXAA 510005459/HG 5 295330000 L9 VP45ESRT50/70 285720000 J.6 UP205NACC 1338920000 H.1 EN126HTU2P 7760051003 64 KXAA 550043429/HG 5 275330000 L9 VP45ESRT50/70 285720000 J.6 UP205NACC 1338920000 H.1 EN126HTU2P 7760051003 87 KXAA 5500434259/A5 275330000 L9 VP45ESRT500/70 285720000 J.6 UP205NACC 1338920000 L6 EN226HTU40200 GW 7760051005 88 KXAA 1810101A129/HA 275330000 L6	EM CONNECTOR CURRENT ATTB	8000100996	E.21									H.9 H.14
EMI10FTU2P 7760051001 B.6 K EMI11FTU2P 7760051001 B.6 KK EMI11FTU2P 7760051001 B.6 KK EMI12PTU2P 7760051001 B.6 KK EMI12PTU2P 7760051001 B.6 KK EMI12PTU2P 7760051003 B.7 KCMA 51005A6/VA.0.5 2753400000 E9 EMI22PTU2P 7760051003 B.7 KCMA 5005A15VA.1 2753370000 E9 EMI22PTU2P 7760051003 B.7 KCMA 5005A22VA.0.5 2753370000 E9 EMI22PTU4P 7760051005 B.8 KCMA 5005A22VA.0.5 2753370000 E9 EVE22PTU4DDD0 7760051005 B.8 KCMA 5005A22VA.0.5 2753370000 E9 EVE22PTU4DDD0 7760051005 B.8 KCMA 5005A22VA.0.5 2753370000 E9 EVE22PTU4DD200 7760051005 B.8 KCMA 51005A25VA.0.5 275330000 E9 EVE22PTU4D200 7760051005 B.8 KCMA 18105A12VA.1 2755330000 E9	EM CONNECTOR VOLTAGE ATTB	8000100997	E.21	IOT-GW30-4G-EU		G.7	PWEB-ES-RT-2000/10	2857400000	J.6	UR20-PK-2674620000-SP		H.15
EM11-ITU2P 7760051010 E6 N PWEBESRT60/2 2887250000 J.6 UR20-SMACC 133992000 H.1 EM120RTU2P 776005100 E6 KKMA 51000-564VA.0.5 275340000 E9 PWEBESRT60/5 2887280000 J.6 UR20-SMACC 1339920000 H.1 EM120RTU2P 776005100 E7 KKMA 52056A15VA.1 275327000 E9 PWEBESRT60/5 285731000 J.6 UR37-VATER447D 281191000 E4 EM122HTU4P 7760051005 E4 KKMA 5605A25VA.0.5 2753380000 E4 PWEBESRT60/2 285731000 J.6 UR37-VATER447D 2811910000 E4 EM22HTU4D2D0 7760051005 E4 KKMA 18100-1A.12VA.3 275289000 E4 PWEBESRT60/2 2875320000 J.6 UR37-VATER447D 275280000 J.6 UR37-VATER447D J.6 UR3				101-GW30-4G-EU	2682630000	H.24						H.14 H.15
Bint Fill (1025) Production (2000) Discontract Discont Discontract Discontrac				K								H.16
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EM122 PTU-2P 7760051003 B.7 KCMA 55005A2 SWA0 5 275339000 E9 PWEBESRT500/5 2875320000 J.6 US674178BST0CKBLE 2874720000 G.4 EM220RTU-401200 7760051005 B.8 KCMA 18100-11-203VA-1 2752990000 E4 PWEBESRT5000/2 2875320000 J.6 US674178LE 2751260000 G.4 EM220FTU-401200-W7 7760051008 B.8 KCMA 18100-14-125VA3 1482010000 E4 PWEBESRT5000/2 2875320000 J.6 EM220FTU-401200-W7 7760051008 B.8 KCMA 18100-14-125VA3 147521405VA-1 2753200000 L4 PWEBESRT5000/2 2875320000 J.6 EMCONNECTIVTY-B0X 144 8000028950 F.10 KCMA-18150-14-1VA-1 275300000 E4 PWEB-SCADART1000/2 2857530000 J.6 EMCONNECTIVT-B0X 15 8000028951 F.10 KCMA-18150-5A1VA-1 2753030000 E4 PWEB-SCADART1000/2 2857530000 J.6 ENREGY ANALYSE 550-2 2654130000 C4 KCMA-18200-1A1VA-1 27530000 L4 PWEB-SCADART1000/2 287551000 J.6 ENREGY ANALYSE 750-24 2654130000 C4 </td <td></td> <td>G.5</td>												G.5
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ENZ20RTU-4DI20D6W 7760051006 B.4 KCMA-18-105-14-125VA-3 1482010000 E4 PWEB-SEAPT-5000/5 287530000 J.6 ENZ20RTU-4DI20D6W 7760051006 B.8 KCMA-18-125-1A-105VA-3 2752380000 E4 PWEB-SCADART-1000/10 2857530000 J.6 ENCONNECTIVT-BOX 96 8000028950 F.10 KCMA-18-150-1A-1VA-1 2753010000 E4 PWEB-SCADART-1000/2 2857520000 J.6 ENCONNECTIVT-BOX 96 8000028950 F.10 KCMA-18-150-1A-2VA-3 420770000 E4 PWEB-SCADART-1000/2 2857520000 J.6 ENCONNECTIVT-BOX 96 8000028950 F.10 KCMA-18-150-1A-1VA-1 2753020000 E4 PWEB-SCADART-1000/2 2857620000 J.6 ENERGY ANALYSER 550 2425500000 C.6 KCMA-18-200-1A-3VA-3 2420760000 E4 PWEB-SCADART-1000/2 2857590000 J.6 ENERGY ANALYSER 550-2 2425501000 C.4 KCMA-18-200-1A-13VA-1 275040000 E4 PWEB-SCADART-1000/2 2857560000 J.6 ENERGY ANALYSER 750-24 2534150000 C.4										US67-V1T-BLE	2751260000	G.4
ENACONNECTIVITY-BDX 144 8000028952 F.10 KCMA-18-125-1A-1,5VA-3 275280000 E4 PWEB-SCADART-1000/2 2857480000 J.6 ENACONNECTIVITY-BDX 158 8000028950 F.10 KCMA-18-16-1A-1VA-1 2753010000 E4 PWEB-SCADART-1000/2 2857530000 J.6 ENERGY ANALYSER 550 242550000 C.6 KCMA-18-150-1A-1VA-1 2753020000 E4 PWEB-SCADART-1000/10 2857530000 J.6 ENERGY ANALYSER 550 242550000 C.6 KCMA-18-200-1A-15VA-1 2753020000 E4 PWEB-SCADART-10000/10 2857530000 J.6 ENERGY ANALYSER 550-24 2602580000 C.4 KCMA-18-200-1A-3VA-3 2420760000 E4 PWEB-SCADART-10000/2 2875390000 J.6 ENERGY ANALYSER 750-24 253413000 C.4 KCMA-18-250-1A-4VA-3 2420750000 E4 PWEB-SCADART-2000/2 2875470000 J.6 ENERGY ANALYSER 750-24 253416000 C.7 KCMA-18-250-1A-4VA-3 2420750000 E4 PWEB-SCADART-2000/2 2875740000 J.6 ENERGY ANALYSER 750-24 2534160000	EM220-RTU-4DI2DO-GW	7760051006	B.4	KCMA-18-100-1A-1,25VA-3	1482010000	E.4	PWEB-ES-RT-5000/5	2875330000	J.6			
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ENERGY ANALYSER 750-24 2534160000 C.4 KCMA-18-250-5A-1VA-0.5 2753050000 E.4 PWEB-SCADART-2000/20 2875370000 J.6 ENERGY ANALYSER 750-24 2534160000 C.7 KCMA-18-50-1A-1VA-3 1482020000 E.4 PWEB-SCADART-2000/5 2867550000 J.6 ENERGY ANALYSER 750-24 255510000 C.4 KCMA-18-75-1A-1VA-3 2420780000 E.4 PWEB-SCADART-2000/5 2862170000 J.6 ENERGY ANALYSER 7550 2425510000 C.4 KCMA-28-200-1A-0.3VA-1 2753070000 E.5 PWEB-SCADART-30000/2 2862170000 J.6 ENERGY ANALYSER 7550-24 2489780000 C.4 KCMA-28-200-1A-0.3VA-1 2753070000 E.5 PWEB-SCADART-30000/2 2875400000 J.6 ENERGY ANALYSER 7550-24 2489780000 C.5 KCMA-28-300-1A-1.5VA-1 275310000 E.5 PWEB-SCADART-3000/2 287540000 J.6 ENERGY LIGGER S0 0.49978000 C.5 KCMA-28-300-1A-1.5VA-1 2753120000 E.5 PWEB-SCADART-500/2 2857420000 J.6 ENERGY METER 520-230 2500880000	ENERGY ANALYSER 750-230	2534130000	C.4						J.6			
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ENERGY LOGGER D550 2425520000 D.3 KCMA-28300-1A-1.5VA-1 2753080000 E.5 PWEBSCADART-500/10 2857470000 J.6 ENERGY LOGGER S0 MODULE 2446170000 D.3 KCMA-28300-5A-15VA-1 2753120000 E.5 PWEBSCADART-500/20 2857420000 J.6 ENERGY METER 520-230 2500880000 B.13 KCMA-28400-5A-2.5VA-1 2753120000 E.5 PWEBSCADART-500/20 2857360000 J.6 ENERGY METER 520-230 2500880000 B.13 KCMA-28400-5A-2.5VA-1 2753130000 E.5 PWEBSCADART-500/20 2857430000 J.6 ENERGY METER 520-24 2500860000 B.13 KCMA-28400-5A-2.5VA-1 2753140000 E.5 PWEBSCADART-500/20 2857600000 J.6 ENERGY METER 520-24 2500860000 B.13 KCMA-28400-5A-25VA-1 2753140000 E.5 PWEBSCADART-5000/20 285770000 J.6 ENERGY METER 525-230 2540890000 B.13 KCMA-32400-5A-5VA-1 1481990000 E.6 PWEBSCADART-5000/20 2857800000 J.6 ENERGY METER 525-24 2540880000 B.13			C.4									
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Order No. Туре 1320000000

JZUU	00000	
1323700000	PM 2.7/2.6 MC SDR	H.14
1323700000	PM 2.7/2.6 MC SDR	H.15
1323700000	PM 2.7/2.6 MC SDR	H.16
1323700000	PM 2.7/2.6 MC SDR	H.7
1323700000	PM 2.7/2.6 MC SDR	H.9
1323710000	PM 2.7/2.6 MC NE WS	H.14
1323710000	PM 2.7/2.6 MC NE WS	H.15
1323710000	PM 2.7/2.6 MC NE WS	H.16
1323710000	PM 2.7/2.6 MC NE WS	H.7
1323710000	PM 2.7/2.6 MC NE WS	H.9

133000000

1334950000	UC20-WL2000-AC	H.16
1339920000	UR20-SM-ACC	H.14
1339920000	UR20-SM-ACC	H.15
1339920000	UR20-SM-ACC	H.16
1339920000	UR20-SM-ACC	H.7
1339920000	UR20-SM-ACC	H.9

134000000

IJTU		
1341610000	DEK 5/8-11.5 MC SDR	H.14
1341610000	DEK 5/8-11.5 MC SDR	H.15
1341610000	DEK 5/8-11.5 MC SDR	H.16
1341610000	DEK 5/8-11.5 MC SDR	H.7
1341610000	DEK 5/8-11.5 MC SDR	H.9
1341630000	DEK 5/8-11.5 MC NE WS	H.14
1341630000	DEK 5/8-11.5 MC NE WS	H.15
1341630000	DEK 5/8-11.5 MC NE WS	H.16
1341630000	DEK 5/8-11.5 MC NE WS	H.7
1341630000	DEK 5/8-11.5 MC NE WS	H.9
1346610000	UR20-EBK-ACC	H.7
1346610000	UR20-EBK-ACC	H.9

142000000

14200		
1429420000	THM UR20 WS	H.14
1429420000	THM UR20 WS	H.15
1429420000	THM UR20 WS	H.16
1429420000	THM UR20 WS	H.7
1429420000	THM UR20 WS	H.9
1429430000	ESO UR20 DIN A4 WS	H.14
1429430000	ESO UR20 DIN A4 WS	H.15
1429430000	ESO UR20 DIN A4 WS	H.16
1429430000	ESO UR20 DIN A4 WS	H.7
1429430000	ESO UR20 DIN A4 WS	H.9
1429910000	THM UR20 GE	H.14
1429910000	THM UR20 GE	H.15
1429910000	THM UR20 GE	H.16
1429910000	THM UR20 GE	H.7
1429910000	THM UR20 GE	H.9

1480000000

1481980000	KCMA-32-600-1A-5VA-1	E.6
1481990000	KCMA-32-400-1A-5VA-1	E.6
1482000000	KCMA-18-250-1A-1,5VA-1	E.4
1482010000	KCMA-18-100-1A-1,25VA-3	E.4
1482020000	KCMA-18-50-1A-1VA-3	E.4
1482030000	CMA-31-100-5A-2,5VA-1	E.12
1482040000	CMA-31-75-5A-2,5VA-1	E.12
1482050000	CMA-31-250-5A-5VA-0,5	E.12
1482070000	CMA-31-500-5A-5VA-0,5	E.12
1482080000	CMA-31-750-5A-5VA-0,5	E.12
1487980000	IE-USB-A-MICRO-1.8M	H.14
1487980000	IE-USB-A-MICRO-1.8M	H.15
1487980000	IE-USB-A-MICRO-1.8M	H.16
1487980000	IE-USB-A-MICRO-1.8M	H.7
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242000000

27200		
2420710000	KCMA-44-750-5A-5VA-1	E.8
2420720000	KCMA-32-600-5A-5VA-1	E.6
2420730000	KCMA-32-400-5A-5VA-1	E.6
2420740000	KCMA-32-500-5A-5VA-1	E.6
2420750000	KCMA-18-250-1A-4VA-3	E.4
2420760000	KCMA-18-200-1A-3VA-3	E.4
2420770000	KCMA-18-150-1A-2VA-3	E.4
2420780000	KCMA-18-75-1A-1VA-3	E.4
2420890000	CMA-31-750-5A-5VA-1	E.12
2420900000	CMA-31-600-5A-5VA-1	E.12
2420910000	CMA-31-500-5A-5VA-1	E.12
2420920000	CMA-31-400-5A-5VA-1	E.12
2420940000	CMA-31-250-5A-5VA-1	E.12
2420950000	CMA-31-200-5A-5VA-1	E.12
2420960000	CMA-31-150-5A-5VA-1	E.12
2420970000	CMA-31-600-5A-5VA-0,5	E.12
2420980000	CMA-31-400-5A-5VA-0,5	E.12
2420990000	CMA-31-300-5A-5VA-0,5	E.12
2421020000	CMA-31-200-5A-2,5VA-0,5	E.12
2421030000	CMA-31-150-5A-2,5VA-0,5	E.12
2421380000	CMA-31-60-5A-1,25VA-1	E.12
2425490000	ENERGY METER D650	B.13
2425500000	ENERGY ANALYSER 550	C.4
2425500000	ENERGY ANALYSER 550	C.6
2425510000	ENERGY ANALYSER D550	C.4

Order No. Page Type 2425510000 ENERGY ANALYSER D550 2425520000 ENERGY LOGGER D550 C.5 D.3

2430000000

Page

2433030000	ENERGY METER FIXING SET	B.15
2433030000	ENERGY METER FIXING SET	B.16
2433030000	ENERGY METER FIXING SET	B.17
2433030000	ENERGY METER FIXING SET	B.18
2433030000	ENERGY METER FIXING SET	B.19
2433030000	ENERGY METER FIXING SET	B.20
2433040000	ENERGY METER BRACKET B1	C.6
2433040000	ENERGY METER BRACKET B1	C.7
2433060000	ENERGY METER BRACKET L1	B.16
2433060000	ENERGY METER BRACKET L1	B.17
2433060000	ENERGY METER BRACKET L1	B.18
2433060000	ENERGY METER BRACKET L1	B.19
2433060000	ENERGY METER BRACKET L1	B.20
2433070000	ENERGY METER BRACKET S2	B.15
2437370000	KCMA-44-800-5A-5VA-1	E.8
2437400000	KCMA-44-1000-5A-5VA-1	E.8

2440000000

2446170000 ENERGY LOGGER SO MODULE D.3

2470000000

2476450000 UR20-FBC-MOD-TCP-V2

248000000

2485280000	UR20-PK-2476450000-SP	H.7
2489780000	ENERGY ANALYSER D550-24	C.4
2489780000	ENERGY ANALYSER D550-24	C.5

249000000

2495610000	ENERGY METER SEAL L96-2	B.15
2495610000	ENERGY METER SEAL L96-2	B.16
2495610000	ENERGY METER SEAL L96-2	B.17
2495610000	ENERGY METER SEAL L96-2	B.18
2495610000	ENERGY METER SEAL L96-2	B.19
2495610000	ENERGY METER SEAL L96-2	B.20
2495630000	ENERGY METER SEAL L144	C.6
2495630000	ENERGY METER SEAL L144	C.7

2

00860000	ENERGY METER 520-24	B.13
00860000	ENERGY METER 520-24	B.15
00870000	ENERGY METER 700-PN-24	B.13
00870000	ENERGY METER 700-PN-24	B.19
00880000	ENERGY METER 520-230	B.13
00880000	ENERGY METER 520-230	B.15
00890000	ENERGY METER 700-PN-230	B.13
0000890000	ENERGY METER 700-PN-230	B.19

252000000

2525150000 CMA-CTM-7-32-1A-0.2VA-1 E.1			
	2525150000	CMA-CTM-7-32-1A-0.2VA-1	E.11

2530000000

34130000	ENERGY ANALYSER 750-230	C.4
34130000	ENERGY ANALYSER 750-230	C.7
34160000	ENERGY ANALYSER 750-24	C.4
34160000	ENERGY ANALYSER 750-24	C.7

254000000

20100		
2540830000	ENERGY METER D370-CBM	B.13
2540830000	ENERGY METER D370-CBM	B.14
2540850000	ENERGY METER 610-230	B.13
2540850000	ENERGY METER 610-230	B.17
2540860000	ENERGY METER 610-PB-24	B.13
2540860000	ENERGY METER 610-PB-24	B.18
2540870000	ENERGY METER 610-PB-230	B.13
2540870000	ENERGY METER 610-PB-230	B.18
2540880000	ENERGY METER 525-24	B.13
2540880000	ENERGY METER 525-24	B.16
2540890000	ENERGY METER 525-230	B.13
2540890000	ENERGY METER 525-230	B.16
2540900000	ENERGY METER 750-24	B.13
2540900000	ENERGY METER 750-24	B.20
2540910000	ENERGY METER 750-230	B.13
2540910000	ENERGY METER 750-230	B.20
2540920000	ENERGY METER 610-24	B.13
2540920000	ENERGY METER 610-24	B.17

255000000

556010000	CMA-CTM-7-64-1A-0.5VA-1	E.11
56030000	CMA-CTM-7-50-1A-0.4VA-1	E.11

257000000

2570120000 UR20-PK-2674620000-SP

Order No. Type

2590000000

2593340000	RCMA-B22-D70-4.5	E.20
2593350000	RCMA-B22-D125-4.5	E.20
2593360000	RCMA-B22-D175-4.5	E.20
2593370000	RCMA-B22-D70-1.5	E.20
2593380000	RCMA-B22-D125-1.5	E.20
2593390000	RCMA-B22-D175-1.5	E.20
2593400000	RCMC-5000-1A-P	E.20
2593410000	RCMC-5000-A0-P	E.20

260000000

2020

H.7

602580000	ENERGY ANALYSER 550-24	C.4
602580000	ENERGY ANALYSER 550-24	C.6
603420000	CMA-RCM-DACT-20	E.14
603430000	CMA-RCM-DACT-35	E.14
603440000	CMA-RCM-DACT-60	E.14
603450000	CMA-RCM-DACT-120	E.14
605360000	UR20-PK-1334950000-SP	H.16

263000000 2638920000 UC20-SL2000-0LAC-EC

265000000

2655590000	UC20-SL2000-OLAC-EC-CAN	H.15
2656270000	KCMA-RCM-23D	E.16
2656280000	KCMA-RCM-58D	E.16
2656290000	KCMA-RCM-812D	E.16
2650700000	LIDGO FOC MOD TOD FCO	11.0

266000000

2660130000	U-CREATE-STUDIO	H.14
2660130000	U-CREATE-STUDIO	H.15
2665170000	UR20-PK-2674520000-SP	H.14

267000000

2674520000	UC20-SL2000-EC	H.14
2674620000	UC20-SL2000-EC-CAN	H.15

268000000

2680150000	CMA-41-1000-5A-5VA-1	E.12
2680160000	CMA-51-1250-5A-5VA-1	E.12
2680170000	CMA-61-1500-5A-5VA-1	E.12
2680180000	CMA-81-2000-5A-10VA-1	E.12
2680190000	CMA-101-2500-5A-10VA-1	E.12
2680200000	CMA-31-125-5A-2,5VA-0,5	E.12
2680210000	CMA-41-1000-5A-5VA-0,5	E.12
2680220000	CMA-51-1250-5A-5VA-0,5	E.12
2680230000	CMA-61-1500-5A-5VA-0,5	E.12
2680240000	CMA-81-2000-5A-10VA-0,5	E.12
2680250000	CMA-101-2500-5A-10VA-0,5	E.12
2682620000	IOT-GW30	G.7
2682620000	IOT-GW30	H.24
2682630000	IOT-GW30-4G-EU	G.7
2682630000	IOT-GW30-4G-EU	H.24
2684400000	SD-CARD-8GB	H.14
2684400000	SD-CARD-8GB	H.15
2684400000	SD-CARD-8GB	H.16
2684410000	BATTERY-CR1220-3V	H.14
2684410000	BATTERY-CR1220-3V	H.15
2684410000	BATTERY-CR1220-3V	H.16

270000000

2702610000	UR20-PK-2659700000-SP	H.9
2708630000	U-CREATE-PROCON-WEB-RT-ES-2000	J.6

271000000

2716650000	PNP-16-MOD-TCP	F.6
2716660000	PNP-32-MOD-TCP	F.6
2716670000	PNP-63-MOD-TCP	F.7
2716690000	PNP-U-MOD-TCP	F.7

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2722630000	U-CREATE-STUDIO-ANNUAL	H.14
2722630000	U-CREATE-STUDIO-ANNUAL	H.15
2728090000	KCMA-8-250-5A-1.5VA1	E.10
2728100000	KCMA-8-500-5A-5VA1	E.10
2728110000	KCMA-8-750-5A-2VA1	E.10
2728130000	KCMA-8-1000-5A-10VA1	E.10
2728140000	KCMA-8-1200-5A-10VA1	E.10
2728150000	KCMA-8-1500-5A-15VA1	E.10
2728160000	KCMA-8-2000-5A-15VA1	E.10
2728170000	KCMA-8-2500-5A-15VA1	E.10
2728180000	KCMA-8-3000-5A-15VA1	E.10
2728190000	KCMA-8-4000-5A-15VA1	E.10
2728210000	KCMA-8-5000-5A-15VA1	E.10

2730000000

H.15

2739330000 IE-UD50KW-MODBUS-W G.10

Туре

275000000

1260000	US67-V1T-BLE	G.4
2980000	KCMA-18-125-1A-1,5VA-3	E.4
2990000	KCMA-18-100-1A-0.3VA-1	E.4
3000000	KCMA-18-125-1A-0.5VA-1	E.4
3010000	KCMA-18-150-1A-1VA-1	E.4
3020000	KCMA-18-200-1A-1.5VA-1	E.4
3030000	KCMA-18-150-5A-1VA-1	E.4
3040000	KCMA-18-200-5A-1,5VA-1	E.4
3050000	KCMA-18-250-5A-1VA-0.5	E.4
3060000	KCMA-28-200-1A-0.3VA-1	E.5
3070000	KCMA-28-250-1A-1VA-1	E.5
3080000	KCMA-28-300-1A-1.5VA-1	E.5
3090000	KCMA-28-400-1A-2.5VA-1	E.5
3100000	KCMA-28-500-1A-1VA-0.5	E.5
3110000	KCMA-28-250-5A-1VA-1	E.5
3120000	KCMA-28-300-5A-1.5VA-1	E.5
3130000	KCMA-28-400-5A-2.5VA-1	E.5
3140000	KCMA-28-500-5A-3VA-1	E.5
3150000	KCMA-42-250-1A-2.5VA-1	E.7
3160000	KCMA-42-300-1A-2.5VA-1	E.7
3170000	KCMA-42-400-1A-2.5VA-0.5	E.7
3180000	KCMA-42-500-1A-2.5VA-0.5	E.7
3190000	KCMA-42-600-1A-2.5VA-0.5	E.7
3200000	KCMA-42-750-1A-2.5VA-0.5	E.7
3210000	KCMA-42-800-1A-2.5VA-0.5	E.7
3220000	KCMA-42-1000-1A-2.5VA-0.5	E.7
3230000	KCMA-42-300-5A-2.5VA-1	E.7
3240000	KCMA-42-400-5A-5VA-1	E.7
3250000	KCMA-42-500-5A-5VA-1	E.7
3260000	KCMA-42-600-5A-2.5VA-0.5	E.7
3270000	KCMA-42-750-5A-2.5VA-0.5	E.7
3280000	KCMA-42-800-5A-2.5VA-0.5	E.7
3290000	KCMA-42-1000-5A-2.5VA-0.5	E.7
3360000	KCMA 5-250-5A-1.5VA-1	E.9
3370000	KCMA 5-400-5A-1VA-0.5	E.9
3380000	KCMA 5-500-5A-2.5VA-0.5	E.9
3390000	KCMA 5-600-5A-2.5VA-0.5	E.9
3400000	KCMA 5-1000-5A-5VA-0.5	E.9
3410000	KCMA-8-600-5A-2.5VA-0.5	E.10
3420000	KCMA-8-800-5A-2.5VA-0.5	E.10
3430000	KCMA-8-1000-5A-5VA-0.5	E.10
3450000	KCMA-8-1200-5A-5VA-0.5	E.10
7620000	US67-BAT-COSL	G.5

281000000

2811910000	US67-PLATE64-STD	G.5

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2831090000	RCMA-B22-D70-6.0	E.20
2831100000	RCMA-B22-D125-6.0	E.20
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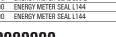
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2857300000	PWEB-ES-RT-100/10	J.6
2857310000	PWEB-ES-RT-500/2	J.6
2857320000	PWEB-ES-RT-500/5	J.6
2857330000	PWEB-ES-RT-500/10	J.6
2857340000	PWEB-ES-RT-1000/2	J.6
2857350000	PWEB-ES-RT-1000/5	J.6
2857360000	PWEB-ES-RT-1000/10	J.6
2857380000	PWEB-ES-RT-2000/2	J.6
2857390000	PWEB-ES-RT-2000/5	J.6
2857400000	PWEB-ES-RT-2000/10	J.6
2857420000	PWEB-SCADA-RT-500/2	J.6
2857430000	PWEB-SCADA-RT-500/5	J.6
2857470000	PWEB-SCADA-RT-500/10	J.6
2857480000	PWEB-SCADA-RT-1000/2	J.6
2857520000	PWEB-SCADA-RT-1000/5	J.6
2857530000	PWEB-SCADA-RT-1000/10	J.6
2857540000	PWEB-SCADA-RT-2000/2	J.6
2857550000	PWEB-SCADA-RT-2000/5	J.6
2857560000	PWEB-SCADA-RT-2000/10	J.6
2857570000	PWEB-SCADA-RT-5000/2	J.6
2857580000	PWEB-SCADA-RT-5000/5	J.6
2857600000	PWEB-SCADA-RT-5000/10	J.6
2857610000	PWEB-SCADA-RT-10000/2	J.6
2857620000	PWEB-SCADA-RT-10000/5	J.6
2857630000	PWEB-SCADA-RT-10000/10	J.6
2857650000	PWEB-DESIGNER-PRO	J.3

286000000

2862170000	PWEB-SCADA-RT-30000/2	J.6
2862180000	PWEB-SCADA-RT-30000/5	J.6
2862190000	PWEB-SCADA-RT-30000/10	J.6
2862200000	PWEB-SCADA-RT-60000/2	J.6
2862210000	PWEB-SCADA-RT-60000/5	J.6
2862220000	PWEB-SCADA-RT-60000/10	J.6
2862230000	PWEB-SCADA-RT-PRO/2	J.6

Page

H.14



25000	00000
2500860000	ENERGY METER 520-24
2500860000	ENERGY METER 520-24
2500870000	ENERGY METER 700-PN-24
2500870000	ENERGY METER 700-PN-24
2500880000	ENERGY METER 520-230
2500880000	ENERGY METER 520-230
2500890000	ENERGY METER 700-PN-23
2500890000	ENERGY METER 700-PN-23

0860000	ENERGY METER 520-24	В.
0860000	ENERGY METER 520-24	В.
0870000	ENERGY METER 700-PN-24	4 B.
0870000	ENERGY METER 700-PN-24	4 B.
0880000	ENERGY METER 520-230	В.
0880000	ENERGY METER 520-230	В.
0890000	ENERGY METER 700-PN-23	30 B.

34130000	ENERGY ANALYSER 750-230
34130000	ENERGY ANALYSER 750-230
34160000	ENERGY ANALYSER 750-24
34160000	ENERGY ANALYSER 750-24

25 25

Order No.	Туре	Page
2862240000	PWEB-SCADA-RT-PRO/5	J.6
2862250000	PWEB-SCADA-RT-PRO/10	J.6
2865880000	RCMA-B22-D300-6.0	E.20

287000000

2874720000	US67-USB-STICK-BLE	G.6
2875320000	PWEB-ES-RT-5000/2	J.6
2875330000	PWEB-ES-RT-5000/5	J.6
2875340000	PWEB-ES-RT-5000/10	J.6
2875350000	PWEB-SCADA-RT-1000/20	J.6
2875360000	PWEB-SCADA-RT-500/20	J.6
2875370000	PWEB-SCADA-RT-2000/20	J.6
2875380000	PWEB-SCADA-RT-5000/20	J.6
2875390000	PWEB-SCADA-RT-10000/20	J.6
2875400000	PWEB-SCADA-RT-30000/20	J.6
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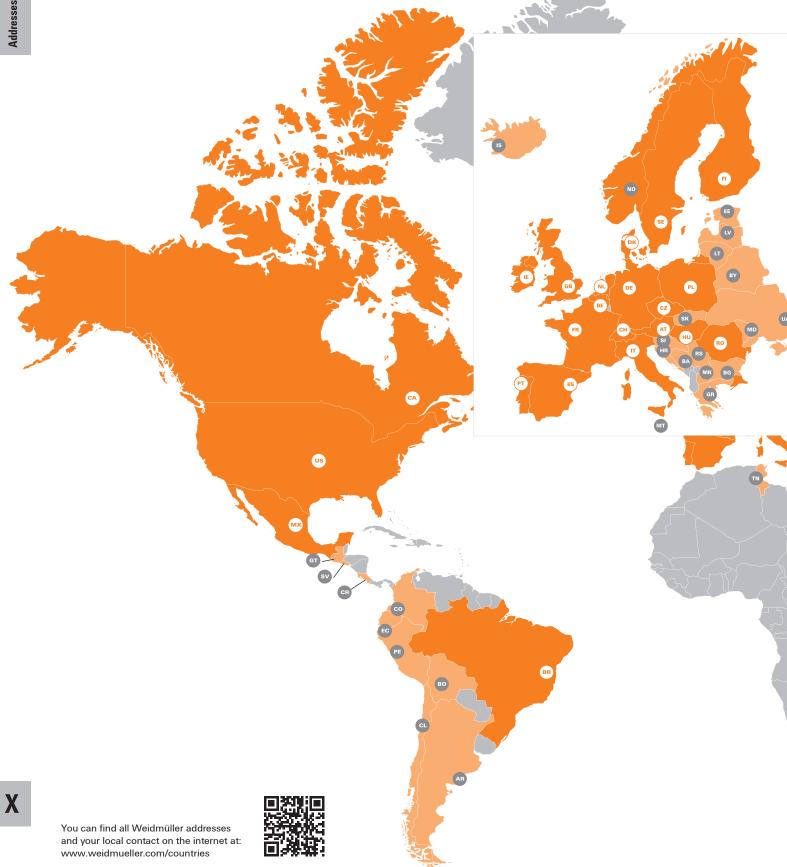
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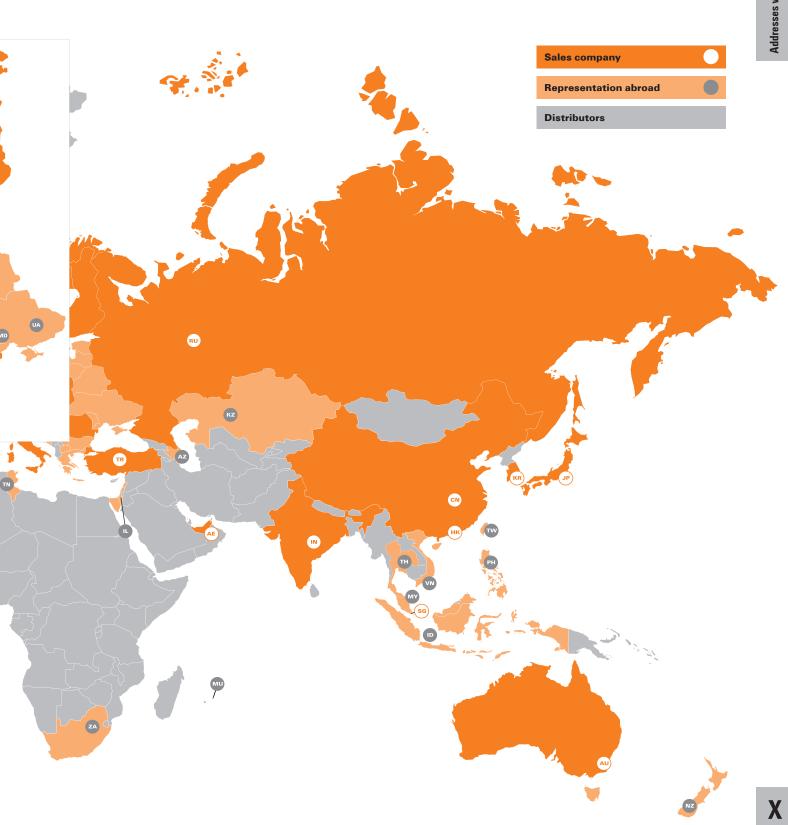
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7760051003	EM122-RTU-2P	B.4
7760051003	EM122-RTU-2P	B.7
7760051004	EM120-RTU-2P	B.4
7760051004	EM120-RTU-2P	B.7
7760051005	EM220-RTU-4DI2D0	B.4
7760051005	EM220-RTU-4DI2D0	B.8
7760051006	EM220-RTU-4DI2DO-GW	B.4
7760051006	EM220-RTU-4DI2DO-GW	B.8

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8000028950	EM-CONNECTIVITY-BOX 96	F.10
8000028951	EM-CONNECTIVITY-BOX TS	F.10
8000028952	EM-CONNECTIVITY-BOX 144	F.10
8000058270	FP IOT MD01 4EU S2 00000	G.6
8000058603	FP IOT MD01 LAN S2 00000	G.6
8000100996	EM CONNECTOR CURRENT ATTB	E.21
8000100997	EM CONNECTOR VOLTAGE ATTB	E.21

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