

Data sheet | Item number: 879-3020

Energy meter (MID); for direct connection; 65A; 3x230/400V; 50Hz; Modbus®
and M-Bus; 2 x S0 interface; 4PS



www.wago.com/879-3020



Subject to changes. Please also observe the further product documentation!

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Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



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Item description

Short description:

Crucial for trimming costs, comprehensive energy measurement is necessary to optimize energy consumption. WAGO's portfolio now has new energy meters that simplify this task while offering several key advantages. They use push-in connection technology with a lever, making them connect quickly and easily. The devices have a width of just 72 mm for direct measurement. These slim profiles save a tremendous amount of control cabinet space. In addition to the values for active and reactive energy, the energy meters also record the mains frequency, as well as current, voltage and power for all phases. And the user can conveniently scan all of these energy characteristics at a glance on a large, illuminated display.

Features:

- Push-in CAGE CLAMP[®] and lever save time at every stage
- Real space savings: 72 mm wide (4PS)
- Measurement of supply and purchase
- Energy measurement in four tariffs

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- The communications pro: M-Bus/Modbus[®] interface and two S0 pulse outputs
- Full transparency at a glance: display energy quality characteristics on an illuminated full-format display
- Intuitive configuration: touch-sensitive controls and configuration app via *Bluetooth*[®]

Data

Technical data

Configuration

Configuration options	Touch-sensitive controls Configuration app via <i>Bluetooth</i> [®]
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Input

Input signal type	Voltage Current
Network configuration	Two-wire, three-wire and four-wire networks
Reference current I_{ref}	5 A
Measured variable	Voltage Current Electrical output Mains frequency
Nominal input voltage $U_{i nom}$	3 x AC 230 ... 400 V
Input voltage range	±20 %
Input current I_i	≤ 65 A
Frequency range	45 ... 60 Hz

Communication

Communication	Modbus [®] M-Bus <i>Bluetooth</i> [®]
Interface	RS-485 (2-wire); 2x S0 interfaces (configurable)
Indicators	LCD with backlight
Rate control input	230 VAC

Signal processing

Measured variables (calculated)	Active and reactive energy in supply and reference direction
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Measurement type (load profile)	No
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Measurement error

Accuracy class	Class B (= 1 % error); Active energy per EN 50470-3
Calibration validity period	8 years

Power supply

Power supply type	Via measurement circuit
Power consumption P_{\max} (phase; active power)	2 W
Power consumption P_{\max} (phase; apparent power)	10 VA

Safety and protection

Dielectric strength	4 kV; 1 min
Impulse withstand voltage (1.2/50 μ s)	6 kV
Pollution degree	2
Protection class	II
Protection type	IP51 / IP20; IP51 (front side); IP20 (connection)

Physical data

Width	72 mm / 2.835 inches
Height	140 mm / 5.512 inches
Depth	63 mm / 2.48 inches
Note (dimensions)	Height without cover: 92 mm

Mechanical data

Mounting type	DIN-35 rail
Housing design	DIN-rail-mount enclosure

Material data

Housing material	PC 940A
Weight	280 g

Environmental requirements

Ambient temperature (operation)	-40 ... +70 °C
Relative humidity	≤ 75% (during storage ≤ 95 %)

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Standards and specifications

Conformity marking	CE
Standards/specifications	EN 50470-1/3 MID-compliant

Commercial data

ETIM 8.0	EC002048
ETIM 7.0	EC002048
Recupel Type	
PU (SPU)	1 pcs
Country of origin	CN
Customs tariff number	90283019000

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Downloads

Documentation

Manual

Product Manual WAGO Energy Meters (MID) 4PS / 4PU / 2PU CT	V 1.7 2023 年3月31 日	pdf 4.1 MB	Download
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Bid Text

879-3020 X81 - Datei		xml 6.9 kB	Download
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Instruction Leaflet

Energy consumption meter	V 1.15 2022 年2月16日	pdf 956.8 kB	Download
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Application Notes**Application Note e!COCKPIT**

e!COCKPIT Application Note WagoAppPowerMeasurement	2021-11-08	pdf	Download
This Application Note describes the use of the library WagoAppPowerMeasurement under different boundary conditions.	2021 年12月6日	953.0 kB	

Libraries**e!COCKPIT libraries**

e!COCKPIT Library Description WagoAppPowerMeasurement	1.7.4.0 2021 年5月25日	pdf 1.5 MB	Download
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CAD/CAE-Data**CAD data**

2D/3D Models 879-3020		URL	Download
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CAE data

ZUKEN Portal 879-3020		URL	Download
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EPLAN Data Portal 879-3020		URL	Download
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Environmental Product Compliance**Compliance Search**

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Installation Notes

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