

Data Sheet | Item Number: 879-3000

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

<https://www.wago.com/879-3000>



Short description:

Optimizing energy consumption requires comprehensive energy measurement. WAGO's portfolio now has new energy meters that make that easier 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:

- Time savings at every stage thanks to Push-in CAGE CLAMP® and lever
- Real space savings: 72 mm wide (4PU)
- 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*®

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 $U_{in, nom}$	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
Measurement type (load profile)	No

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 µs)	6 kV
Pollution degree	2
Protection class	II
Protection type	IP51 / IP20; IP51 (front side); IP20 (connection)

Connection data

Connection 1

Connection type 1	Voltage/current
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2616 Series
Actuation type	Lever
Strip length	18 ... 20 mm / 0.71 ... 0.79 inches
Solid conductor	0.75 ... 16 mm ² / 18 ... 4 AWG
Fine-stranded conductor	0.75 ... 25 mm ² / 18 ... 4 AWG
Fine-stranded conductor; with insulated ferrule	0.75 ... 16 mm ²
Fine-stranded conductor; with uninsulated ferrule	0.75 ... 16 mm ²

Connection 2

Connection type 2	Communication/rate control input
Connection technology 2	Push-in CAGE CLAMP®
WAGO connector 2	WAGO 2604 Series
Actuation type 2	Lever
Strip length 2	9 ... 11 mm / 0.35 ... 0.43 inches
Solid conductor 2	0.2 ... 4 mm ² / 24 ... 12 AWG
Fine-stranded conductor 2	0.2 ... 4 mm ² / 24 ... 12 AWG
Fine-stranded conductor; with insulated ferrule 2	0.25 ... 2.5 mm ²

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
Fire load	0 MJ
Weight	280 g

Environmental requirements

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

Standards and specifications

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

Commercial data

ETIM 8.0	EC002048
ETIM 7.0	EC002048
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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