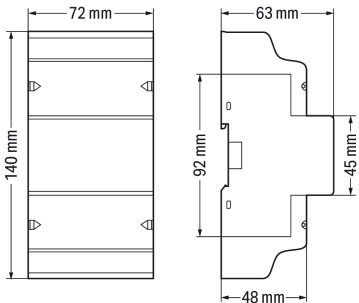
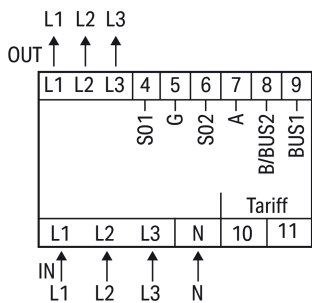
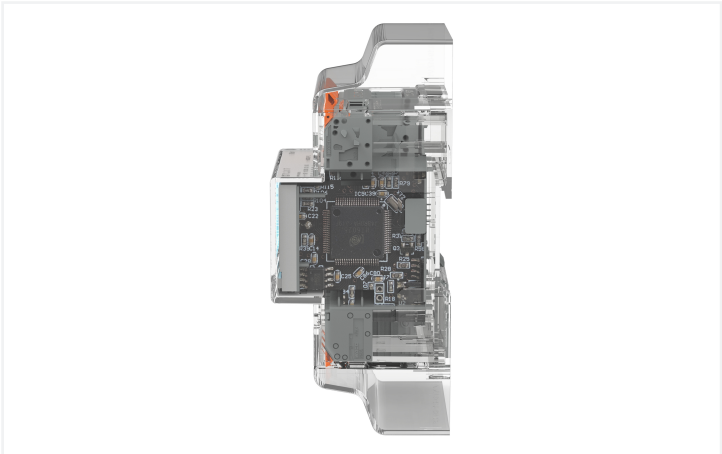


Data Sheet | Item Number: 879-3020

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

<https://www.wago.com/879-3020>



Conductor cross-section	Primary rated current	Ambient operating temperature		
		40 °C	55 °C	70 °C
4 mm² (Fine-stranded conductor)	15 A			X
	25 A		X	
	30 A	X		
4 mm² (Fine-stranded conductor; with insulated ferrule)	17 A			X
	27 A		X	
	32 A	X		
6 mm² (Fine-stranded conductor)	25 A			X
	37 A		X	
	41 A	X		
6 mm² (Fine-stranded conductor; with insulated ferrule)	27 A			X
	39 A		X	
	41 A	X		
10 mm² (Fine-stranded conductor)	30 A			X
	40 A		X	
	55 A	X		
10 mm² (Fine-stranded conductor; with insulated ferrule)	30 A			X
	45 A		X	
	55 A	X		
16 mm² (Fine-stranded conductor)	35 A			X
	50 A		X	
	65 A	X		
16 mm² (Fine-stranded conductor; with insulated ferrule)	35 A			X
	55 A		X	
	65 A	X		
25 mm² (Fine-stranded conductor)	65 A			X
	45 A		X	

Short description:

Crucial for trimming costs, comprehensive energy measurement is necessary to optimize energy consumption. WAGO's portfolio has 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
- 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 $U_{i nom}$	3 x 230 ... 400 VAC
Input voltage range	±20 %
Input current I_i	≤ 65 A
Frequency range	45 ... 60 Hz

Communication

Communications	Modbus® M-Bus <i>Bluetooth®</i>
Interface	RS-485 (2-wire); 2 x 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
Measured value acquisition	for direct connection

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 position	Output top (PS)	Connection 1	
Design	4PS	Connection type	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 mm² / 18 ... 4 AWG
		Fine-stranded conductor	0.75 ... 25 mm² / 18 ... 4 AWG
		Fine-stranded conductor; with insulated fer- rule	0.75 ... 16 mm²
		Fine-stranded conductor; with uninsulated ferrule	0.75 ... 16 mm²

Connection 2	
Connection type	Communication/rate control input
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2604 Series
Actuation type	Lever
Strip length	9 ... 11 mm / 0.35 ... 0.43 inches
Solid conductor	0.2 ... 4 mm² / 24 ... 12 AWG
Fine-stranded conductor	0.2 ... 4 mm² / 24 ... 12 AWG
Fine-stranded conductor; with insulated fer- rule	0.25 ... 2.5 mm²
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm²

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 % (for storage ≤ 95 %)

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
Customs tariff number	90283019000

UNSPSC	41113630
ETIM 9.0	EC001102
ETIM 10.0	EC001506
ECCN	NO US CLASSIFICATION

RoHS Compliance Status	Compliant, No Exemption
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Declarations of conformity and manufacturer's declarations

Downloads

Compliance Search

Environmental Product
Compliance 879-3020

Manual	Bid Text
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Continued on next page



Instruction Leaflet			
Energy consumption meter	V 1.15 16.02.2022	pdf 934.38 KB	↓

Application Notes

Application Note e!COCKPIT			
e!COCKPIT Application Note WagoAppPower-Measurement	2021-11-08 06.12.2021	pdf 930.71 KB	↓

CAD/CAE-Data

CAD data	
2D/3D Models 879-3020	↓

CAE data	
EPLAN Data Portal 879-3020	↓
ZUKEN Portal 879-3020	↓

1 Compatible Products

1.1 Optional Accessories

1.1.1 Communication

1.1.1.1 Communication Module



Item No.: 879-9000 Communication module; Modbus TCP
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