

IQ0304100d1

Direct connected One Phase DIN rail Meter

- Designed for submetering of electrical loads up to 100 Amps
- RS485 Modbus Slave
- MID certified
- SO output for active and reactive energy
- LED impulse for active and reactive energy
- Far IR Optical Port

Contact

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Main features

Measurement
- Total active and reactive energy
- Total import and export for active and reactive energy
- Instantaneous voltage and current, PF, Vrms, Irms, active and reactive power

Profiles for energy measurement modes
- 1: Total = Forward
- 2: Total = Reverse
- 3: Total = Forward + Reverse
- 4: Total = Forward - Reverse (default)

Privacy and security
- Secured with 5-digit passcode

Communication interface
- Remote communication to HES via modular LTE Cat-M / GPRS communication module.
- P1 port with RJ12 connector to push data to customer's device (DSMR 5.0.2.).
- Local communication via optical port.
- Modbus RS485/RTU Slave
  - Baudrate: 9600 (d)/19200/38400/115200
  - Parity: none, odd, even (default)
- Optical IR for active and reactive energy pulse output
- SO output for active and reactive energy

Display
- LCD with blue backlight
- Three programmable display mode
- LEDs to indicate communication status

Technical specifiations

Reference standard
- EN 50470-1/3, IEC 62052-11, IEC 62053-21
- DLT645
- MID

Electrical

Accuracy	Active	Class B
	Reactive	Class 2
Voltage	Rated Voltage	3*230V / 400v
	Operation voltage range	80% to 120% Un
Current	Rated current	5A
	Min / Max current	20mA / 100A
Frequency	50Hz ± 5%	
Power consumption	Voltage circuit	≤1W
	Current circuit	≤10VA
Pulse constant	1000 imp/kWh	

Reliability

Meter life	≥10 Years	**Data retention**	≥10 Years

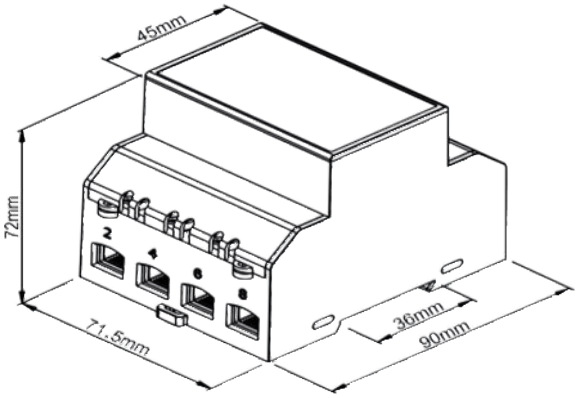
Mechanical

Dimensions (L x W x H)	71.5 x 90 x 72(mm)	**Weight (Kg)**	0.125
Enclosure material	PC+GF	**Insulation protection**	Class II

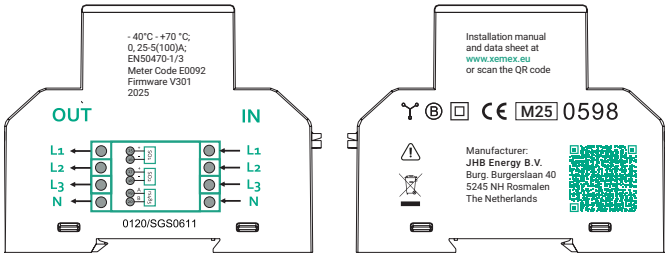
Environmental

Operating temperature	-25 ° C to 70 ° C	**Storage temperature**	-30 ° C to 70 ° C
Operating humidity	Maximum ≤ 95% RH	**Ingress protection**	IP51 indoor

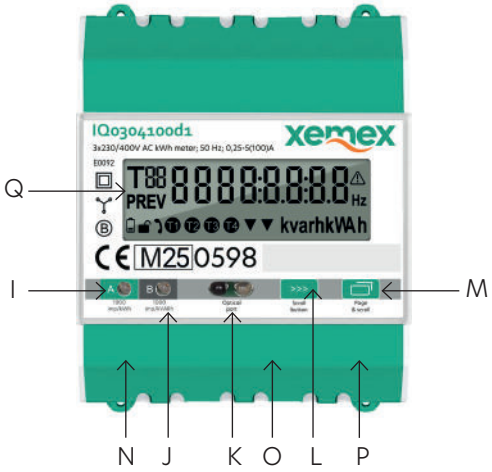
Overall dimensions



Wiring diagram



Display format



I	Impulse indication for active energy
J	Impulse indication for reactive energy
K	Far IR
L	Button for data checking
M	Button for data setting
N	SO1 output for active energy (default)
O	SO2 output for reactive energy (default)
P	RS485 output
Q	LCD screen

contactinformation



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