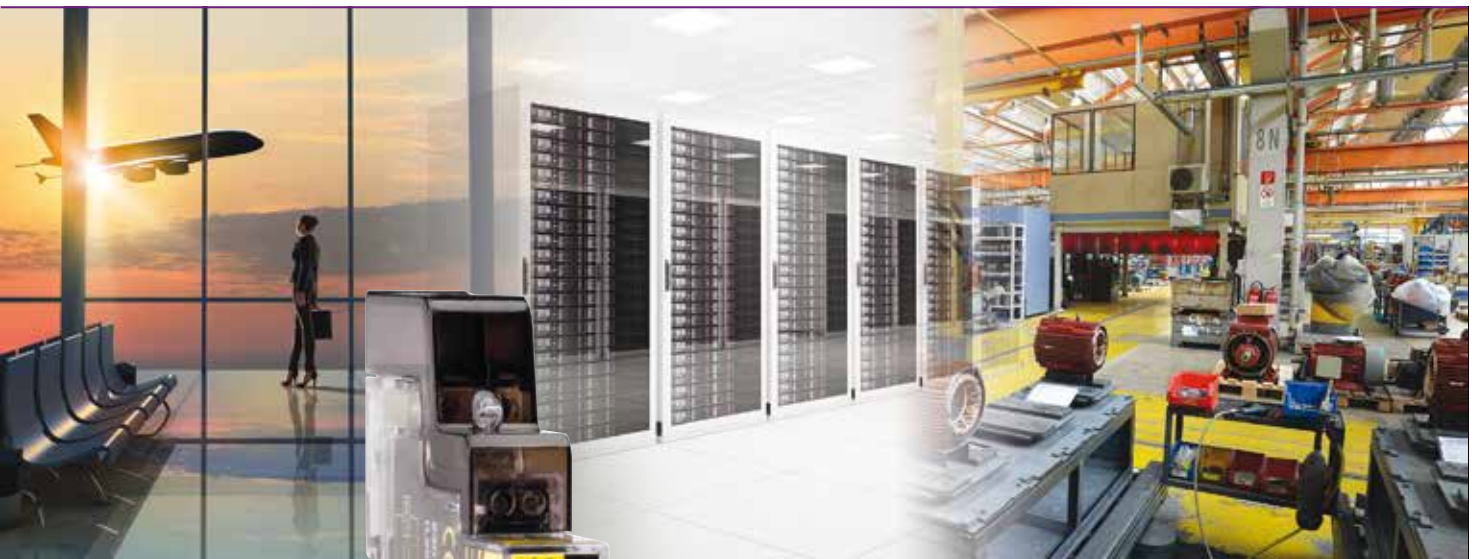


MEMO4

Energy Meter



**Metering,
submetering,
energy monitoring
and rebilling**

- Single-phase, direct connection up to 45 A
- Integrated RS485 Modbus communication
- Dual-tariff, bidirectional metering
- 1 DIN module

Measure up



Electrical specifications

Current input	
Rated current (I _{max})	45 A
Min. current (I _{min})	250 mA
I _{start} current (I _{st})	20 mA
Voltage input	
Rated voltage (U _n)	230 Vac (-15% / + 10%)
Consumption	≤ 2 W
Frequency	50 Hz (± 10%)
Metrological LED	
Weight	10,000 pulses/kWh
Pulse output	
Weight	Programmable (0.01 – 0.1 – 1 – 10 – 100 – 1,000 – 2,000 – 10,000 pulses/kWh)
Accuracy	
Active energy	Class 1 according to IEC 62053-21 MID class B according EN 50470-13
Infrared output	
Wave length IR	900 – 1,000 nm
Protocol	IEC 62056-21:2002 (IEC 1107)
Communication	
Bus type	RS485
Protocol	MODBUS RTU (16 bit CRC)
Transmission speed	1,200 – 2,400 – 4,800 – 9,600 bauds/s (by default)
Address	0 – 247 (by default 2 last digits of SN)
Bus maximum loads	60
Maximum distance	1,000 m

Mechanical specifications

Protection	IP51 on front panel
Power circuit connection	Max 10 mm ²
Connection of pulse or communication output	Max 2.5 mm ²
Mounting	On 35 mm DIN rail
Weight	80 g

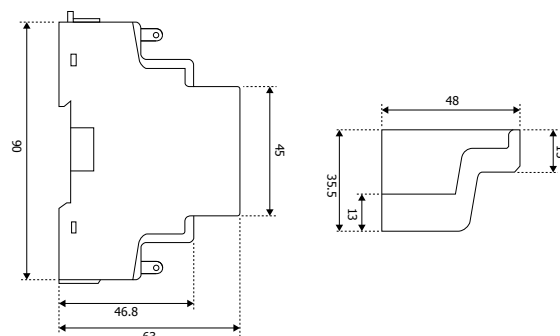
Environment

Operating temperature	-25 °C to +55 °C
Relative humidity during operation	≤ 75 %

To order

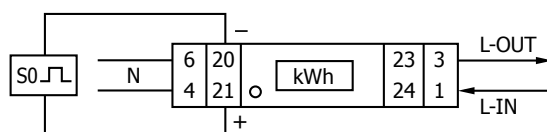
Model	Certification	Communication	Reference
MEMO4-M	MID	-	P01330751
MEMO4 Modbus	IEC	RS485 Modbus	P01330752
MEMO4-M Modbus	MID	RS485 Modbus	P01330753

Dimensions (in mm)

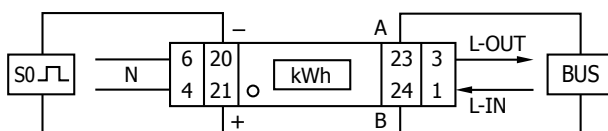


Electrical connections

MEMO4-M



MEMO4 Modbus / MEMO4-M Modbus



MEMO4

Displays the instantaneous values of all the electrical quantities: V, I, P, Q, S, F, PF

If you use the instrument with a remote data-retrieval solution and the **E.online energy management software**, you can recover your energy consumption data on your PC so that you can **generate** consumption reports automatically and ensure fair allocation.



Accessories	Reference
MEMO4 optical head	P01330790

To facilitate quick programming of the MEMO4 meters, an adapter is supplied with the optical head.

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