

## Energy meter 6 A Modbus RTU ECM6-S-MID



- Certified MID version
- For RS485 Modbus RTU communication
- For 1 or 5A converters
- Programmable transformer ratio
- Fully bidirectional four-quadrant measurements for all energies and powers
- For 4-wire networks with balanced or unbalanced load
- Class B according to EN 50470-3
- S0 output for energy pulse output

<https://www.wachendorff-prozesstechnik.de/en/ECM6-S-MID>

### Description

The ECM6-S-MID is a three-phase energy meter that has MID conformity certification and is therefore suitable for billing purposes. The meter can be operated with 1 A and 5 A transformers, has a programmable wandering ratio and can carry out complete bidirectional four-quadrant measurements for all energies and outputs. It is suitable for 4-wire networks with balanced or unbalanced load and fulfills the accuracy of class B according to EN 50470-3. In addition to the standard S0 interface, the energy meter variant mentioned here has an RS485 interface with the Modbus RTU protocol.

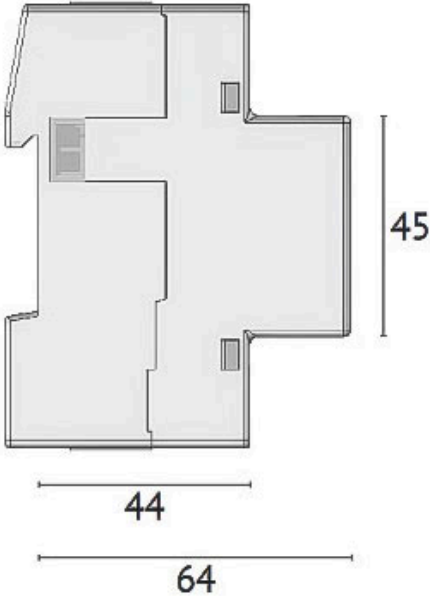
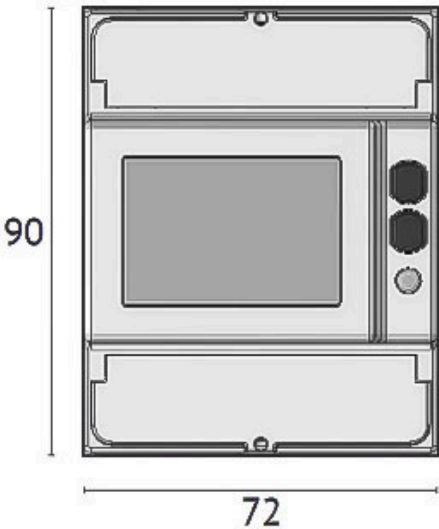
### Product details

MID conformity	Yes
Auxiliary voltage	From measuring circuit $U_n \pm 20\%$
Consumption	7.5 VA 0.5 W
Dimensions (W x H x D)	72 mm x 90 mm x 64 mm
Weight	420 g
Operating temperature range	Operation -25 °C to 55 °C
Storage temperature range	Storage -25 °C to 75 °C
Application range relative humidity	Humidity 0 to 80 RH
Assembly	DIN rail mounting
Electrical connection	4 Ladder
Display type	LCD
Display number of digits	8
Display IP protection class	IP51 (front), IP20 (terminal)
Measuring inputs Conductor cross-section	1.5 mm <sup>2</sup> to 6 mm <sup>2</sup>
Tariff outputs Conductor cross-section	0.14 mm <sup>2</sup> to 2.5 mm <sup>2</sup>
Tariff input	Yes
Voltage range Tariff	None
Metrological LED pulse value	10000 imp. / kWh
Measuring LED pulse duration	10 ± 2 ms
Communication	S0, Modbus RTU
Web server	None
Data storage	8 MB
Active energy Accuracy	Class B according to EN 50470-3
Reactive energy accuracy	Class 2 according to IEC/EN 62053-23

Starting current	2 mA
Minimum current	10 mA
Transition current	50 mA
Rated current	1 A
Rated current - load	< 0.04 VA
Frequency measurement	50 to 60 Hz
Number of S0 outputs	1
S0 output Maximum current	27 mA
S0 output Maximum voltage	27 DC
S0 output Pulse output	100 Imp. / kWh
S0 output Pulse duration On	50 ± 2 ms
S0 output Pulse duration Off	30 ± 2 ms
Scope of delivery	Counter, manual
Manufacturer	Celsa Messgeräte GmbH

Drawings

Dimensions (mm)





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