

## Energy meter 6 A M-Bus ECM6-M-MID



- Certified MID version
- For M-Bus communication
- For 1 or 5A transformer
- Programmable transformer ratio
- Fully bidirectional four-quadrant measurements for all energies and powers
- For 3- / 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-M-MID>

### Description

The ECM6-M-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 3/4-wire networks with balanced or unbalanced load and fulfills the accuracy requirements of class B according to EN 50470-3. In addition to the standard S0 interface, the version of the energy meter mentioned here has an RS232 interface with the M-BUS protocol.

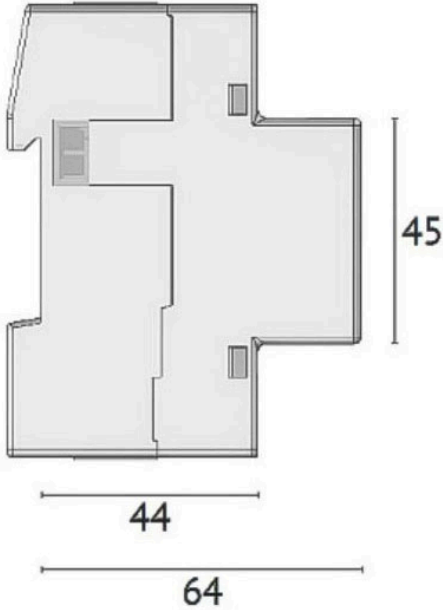
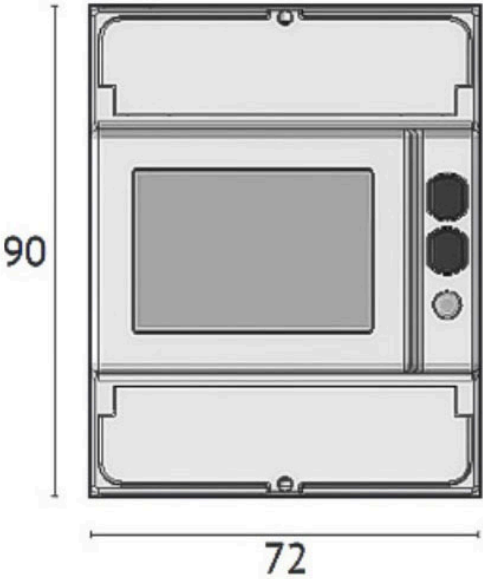
### Product details

|  |   |
|--|---|
| 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                                   | 410 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                    | 3/4 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                     | 80 - 276 AC-DC                              |
| Metrological LED pulse value             | 10000 imp. / kWh                            |
| Measuring LED pulse duration             | 10 ± 2 ms                                   |
| Communication                            | S0, M-Bus (300 - 38400 bit/s)               |
| 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)**





Wachendorff Prozesstechnik GmbH & Co. KG  
Industriestrasse 7 • 65366 Geisenheim  
Germany

Phone: +49 (0) 67 22 / 99 65 - 20  
E-Mail: [wp@wachendorff.de](mailto:wp@wachendorff.de)  
[www.wachendorff-prozesstechnik.de](http://www.wachendorff-prozesstechnik.de)

