

CMD 68-45x - Alternating current plug-in energy meter

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data sheet



The CMD 68 45xMID is a modern alternating current energy meter for the DIN top hat rail. It determines active and reactive energy in class B, as well as other electrical measured values (U/I/P).

Features

- Electronic alternating current energy meter
- DIN35 top hat rail installation
- 1 TE width
- Measures 1-phase current and voltage in 4-quadrant mode
- Direct measurement up to 45 A
- Active and reactive energy recording of supply and draw
- MID - Conformity for clearing purposes
- S0 - Pulse output for both energy directions
- Calibration validity period: 8 years
- Communication: S0, M bus or Modbus
- Use in 230 V networks
- 6.2 digit LCD display with backlight
- Convenient operation via function keys
- Resettable secondary counter
- 2 tariffs



Application

The device is used to measure consumption in low-voltage main distribution and sub-distribution systems for ISO 50001. It can also be used for sub-accounting according to MID. Interfaces can be used to use it in control systems for cost centre billing and to include it in energy management systems.

Designation	Functions	Communication	Item number
CMD 68-451	45 A direct measurement	1 S0 pulse output	26.68.0451
CMD 68-452	45 A direct measurement	Modbus + 1x S0	26.68.0452
CMD 68-453	45 A direct measurement	M-Bus + 1x S0	26.68.0453

CMD 68-45MID - Alternating current energy meter

Direct measurement, 1-phase

Technical data	Type		
	CMD 68-451MID	CMD 68-452MID	CMD 68-453MID
Item number	26.68.0451	26.68.0452	26.68.0453
Communication	1 S0 pulse outputs	Modbus +1x S0	Mbus +1x S0
Baud rate (Bits/sec)	-	300-9600	300-9600
Voltage (U)	230 V	230 V	230 V
Current (I)	45 A	45 A	45 A
Frequency (Hz)	50 Hz	50 Hz	50 Hz
Measurement size	Active and reactive energy in delivery and supply direction	Active and reactive energy in delivery and supply direction	Active and reactive energy in delivery and supply direction
Meter type	illuminated LC display	illuminated LC display	illuminated LC display
Digits	5.2	5.2	5.2
Accuracy	B	B	B
Own consumption per phase	< 2 W	< 2 W	< 2 W
Temperature range	-25 ... 55 °C	-25 ... 55 °C	-25 ... 55 °C
Protection class	IP 51	IP 51	IP 51
Maximum wire cross section	10 mm ²	10 mm ²	10 mm ²
Maximum wire cross section for additional terminals	2.5 mm ²	2.5 mm ²	2.5 mm ²
Dimensions (WxHxD)	17.5 x 117.5 x 63 mm	17.5 x 117.5 x 63 mm	17.5 x 117.5 x 63 mm
Weight	0.08 kg	0.08 kg	0.08 kg
Non-return device	yes	yes	yes
Number of tariffs	1	1	1
Pulse outputs	0.01 to 10,000 Imp/ kWh	0.01 to 10,000 Imp/ kWh	0.01 to 10,000 Imp/ kWh

