ECM05

LCD Single-Phase DIN Rail Energy Meter

Compact direct-connected energy meter for monitoring single-phase electrical loads. The ECM05 combines a local LCD display, pulse indication and RS485 communications in a space-saving 18 mm DIN rail format.

Key Features

- Single-phase, direct-connected meter rated to 100 A maximum.
- 230 VAC operation at 50/60 Hz.
- Measuring Voltage, Current (Amps), Power Factor, kWh, VAr, and more.
- Class 1 active energy measurement marking to IEC 62053-21.
- Clear LCD with front selection button for local readings.
- RS485 communications with Modbus RTU interface.
- 1000 imp/kWh pulse indicator for energy verification.
- One-module 18 mm width for 35 mm DIN rail installation.
- CAT III measurement category with double-insulated enclosure.

18 mm	100 A	RS485
1-module width	Direct connected	Modbus RTU

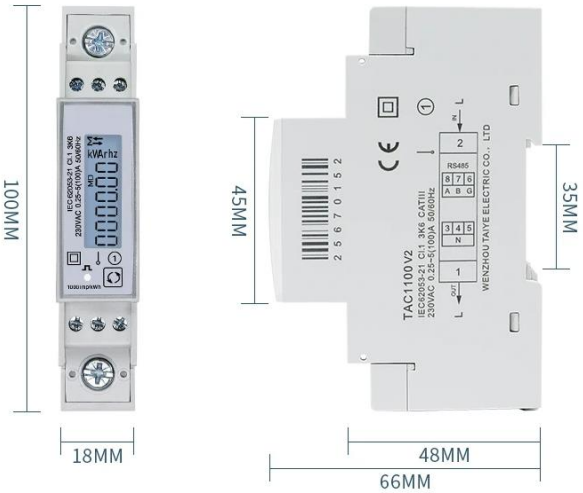
Typical applications: Rack PDUs, distribution boards, control panels, equipment monitoring and sub-metering of single-phase circuits.

IMPORTANT: This meter is a monitoring device, not a circuit-protection device.

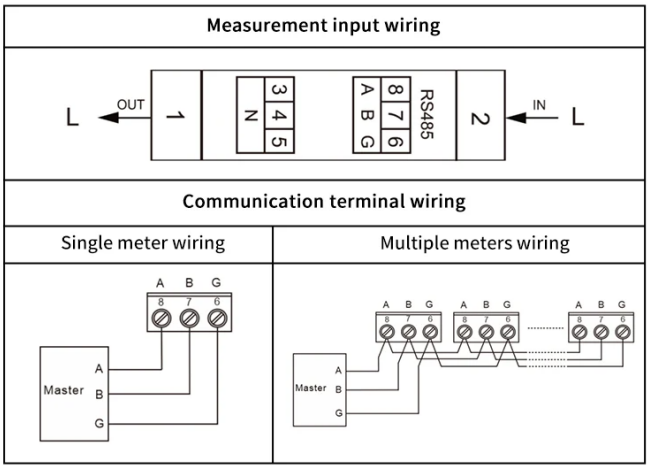
Technical Specifications

Product code	ECM05
Meter type	Single-phase, direct-connected LCD energy meter
Mounting	35 mm DIN rail, 1 module width (18mm)
Rated voltage	230 VAC
Current range	0.25-5(100) A
Frequency	50/60 Hz
Active energy accuracy	Class 1
Referenced meter standard	IEC 62053-21 (product marking)
Measurement category	CAT III
Environmental class	3K6 (product marking)
Pulse constant	1000 imp/kWh
Display	LCD with front selection button
Communications	RS485, Modbus RTU
RS485 terminals	8 = A, 7 = B, 6 = G
Power terminals	1 = L output, 2 = L input, 3-5 = Neutral
Dimensions (H x W x D)	100 x 18 x 66 mm
Enclosure	Double-insulated moulded enclosure

Dimensions



Wiring Diagram



Installation note: Installation and wiring must be completed by a suitably qualified electrical person. Isolate supply before wiring. Confirm terminal identification on the product and provide appropriate upstream overcurrent protection for the circuit.