Vantor VM-312

Multi-Channel Energy Meter, 4 x 3P / 12 x 1P

The Vantor VM-312 meters up to four three-phase circuits (or twelve single-phase circuits) from one compact DIN-rail unit, making it the most cost-effective way to sub-meter a distribution board with many outgoing ways - tenants in a mall, floors in an office block or feeders in a plant room. Each channel records voltage, current, power, four-quadrant energy, demand, run time and harmonics to the 31st order to Class 0.5S. Circuits are measured with the dedicated VM-312 split-core CT sets (5 A to 800 A, mixable across channels) and data is read over RS485 Modbus RTU, with Wi-Fi, 4G or LoRa available as options. Order the meter plus one CT set per circuit.

Packed and sold in boxes of 10.



Key Features

- 4 x three-phase or 12 x single-phase circuits per meter
- Class 0.5S active energy; U/I Class 0.2
- Per-channel U, I, f, kW, kvar, kVA, PF, four-quadrant energy, demand, max/min, run time, 2nd - 31st harmonics
- Dedicated split-core CT sets: 5 A / 100 A (16 mm), 200 A (22 mm), 400 A (36 mm), 800 A (50 mm), 2 m leads; up to 4 sets of different ranges per meter
- RS485 Modbus RTU (also DL/T645, MQTT); optional Wi-Fi, 4G or LoRa
- Optional 4 DI, 4 DO and 4 temperature inputs
- LCD display, 35 mm DIN-rail mounting
- Wide-range supply 85 - 305 V AC / 70 - 430 V DC

Technical Specifications

- Model: VM-312 (select meter or CT set below)
- Channels: 4 x 3-phase (12 x 1-phase)
- Accuracy: active energy Class 0.5S, U/I Class 0.2, reactive Class 2
- Voltage: 3 x 220 V AC rated
- Current: via VM-312 CT sets, 5 A / 100 A / 200 A / 400 A / 800 A per channel
- Communication: RS485 Modbus RTU; -Wi Wi-Fi, -4G, -L LoRa optional
- I/O options: -K 4 DI, -R 4 DO, -T 4-wire temperature
- Mounting: 35 mm DIN rail, LCD
- Auxiliary supply: 85 - 305 V AC / 70 - 430 V DC, < 3 VA; -25 to +70 degC

Optional add-ons: Wi-FiGLoRaDODI-wire temperature sensor. Each CT set contains three split-core CTs for one three-phase circuit.

Ordering information

Order code	Description
VM-312	VM-312 meter (no CTs)
VM-312-CT-A	CT set A - 3 x 5 A split core, 16 mm
VM-312-CT-B	CT set B - 3 x 100 A split core, 16 mm
VM-312-CT-C	CT set C - 3 x 200 A split core, 22 mm
VM-312-CT-D	CT set D - 3 x 400 A split core, 36 mm
VM-312-CT-E	CT set E - 3 x 800 A split core, 50 mm