Vantor VM-D50L

Three Phase DIN Rail Energy Meter, 100A Direct, LoRaWAN

Vantor VM-D50L three-phase DIN rail energy meter with 100A direct connection and a built-in LoRaWAN radio, so readings reach your LoRaWAN network server or metering platform with no modem or data cabling per meter. RS485 Modbus RTU is fitted as well. THD measurement and four-quadrant metering on 1P2W, 2P3W, 3P3W and 3P4W networks.



Key specifications

- LoRaWAN V1.0.4 Class C radio built in (regional frequency plan confirmed at order)
- RS485 Modbus RTU as well, 1200–38400 bps, up to 64 meters per bus
- Active energy Class 1 / Class 0.5S (IEC 62053-21/22), reactive Class 2 (IEC 62053-23)
- 3×230/400V AC (85–276V L-N, 85–480V L-L), 45–65Hz
- 0.15–100A direct input per phase, rated 5A, 30× overload for 0.01s
- 1P2W / 2P3W / 3P3W / 3P4W network configurations
- Bi-directional import/export active and reactive energy, four-quadrant
- Voltage and current THD measurement
- Multifunction: V, A, W, var, VA, kWh, kvarh, PF, phase angle, frequency
- Meter running time and load running time
- Configurable pulse output: 400 / 100 / 10 / 1 imp per kWh or kvarh
- Large backlit LCD with touch buttons, password protection
- 4 modules (72mm) TH35-7.5 DIN rail, IP51 display / IP30 body
- –25°C to +55°C operating, 4kV AC insulation, CAT III
- For CT-operated supplies above 100A choose the VM-T55M-L

Ordering information

Order code	Description
VM-D50L	Three Phase DIN Rail Energy Meter, 100A Direct, LoRaWAN