

# VM-3P75CT

Three-phase energy meter

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Accessories included:



Current transformers (CT)



VE.Can RJ45 Terminators



## Three-phase energy meter with Ethernet and VE.Can communication ports

The Victron VM-3P75CT energy meter is a standard device to measure the power and energy of single-, split- and three-phase applications, for example, at the distribution box or to measure the output of a PV Inverter, AC Genset or the output of an inverter and inverter/charger.

## High refresh rate

Calculating the RMS power values for each phase, the energy meter transmits them at a high rate over VE.Can or Ethernet, leading to more accurate measurements for power usage, grid-import and grid feed-in, for example, in an ESS system.

## The VM-3P75CT makes setup a breeze

Engineered for easy integration, the energy meter works out of the box (Plug & Play) as a grid meter for most systems. Configuration (via VictronConnect) is only required for changing the role (Grid Meter, PV Inverter, AC Genset or AC Load Meter) and manual IP configuration rather than the default, DHCP.

## Remote monitoring from anywhere

Its data will be displayed in the [VictronConnect App](#), a GX device such as the [Cerbo GX](#) or [Ekrano GX](#) and our [VRM Portal](#).

## Effortless Installation with snap-on type current transformers

The VM-3P75CT uses clamp-type current transformers to sense the current accurately, without having to modify the wiring of an existing installation.

## Configurable energy registration method

The VM-3P75CT offers a configurable energy registration method, allowing selection between vector, arithmetic, or absolute registration. This flexibility makes it suitable for various regional requirements.

## Comprehensive electrical parameter monitoring

Reporting of line-to-neutral, line-to-line and protective earth voltages as well as neutral and line currents.

## LED pulse output

The status LED can be configured as an energy pulse signal to enable visual diagnostics at a glance.

| VM-3P75CT                         | REL200300100   |
|-----------------------------------|--|
| VOLTAGE INPUTS                    |  |
| Voltage connection                | Direct   |
| Input voltage range L-N           | 85 to 265 VAC  |
| Input voltage range L-L           | 150 to 460 VAC   |
| Frequency                         | 50/60 Hz   |
| CURRENT INPUTS                    |  |
| Current connection                | Via current transformers (included - wire length 640 mm) |
| Rated current                     | 75 A   |
| COMMUNICATION                     |  |
| VE.Can communication port         | Two RJ45 connectors (VE.Can terminators included)        |
| Ethernet communication port       | One RJ45 connector, Modbus UDP                           |
| Refresh rate                      | 100 ms   |
| POWER SUPPLY                      |  |
| Type                              | Self-power supply via L1-N                               |
| Consumption                       | 1.45 W / 3.1 VA  |
| Frequency                         | 50/60 Hz   |
| ENCLOSURE                         |  |
| Material & Colour                 | Polycarbonate, blue (RAL 5012)                           |
| Voltage connection                | Screw terminals 0.25 – 1.5 mm <sup>2</sup> (24 – 16 AWG) |
| Current transformer connection    | Pluggable screw terminals (included)                     |
| Protection category               | IP20   |
| Weight                            | 370 g (including packaging)                              |
| Dimensions (h x w x d)            | 90 x 71 x 59 mm (3.5 x 2.8 x 2.3 in)                     |
| ENVIRONMENTAL                     |  |
| Indoor/outdoor usage              | Indoor only  |
| Operating temperature             | From -10 to +55 °C                                       |
| Storage temperature               | From -20 to +70 °C                                       |
| Relative humidity                 | < 90 % non-condensing                                    |
| Altitude                          | 2000 m (6562 ft)   |
| Mains supply voltage fluctuations | ±0.1 V <sub>in</sub>                                     |
| Overvoltage category              | Cat. III   |
| Pollution degree                  | 2  |
| STANDARDS                         |  |
| Safety                            | EN-IEC 61010-1   |