



## CVM-D50-ITF

CVM-D50-ITF, Three-phase power analyser with DIN-rail memory

Code: M56570.

- > Protocol: Modbus/TCP
- > Memory: Yes
- > Communications: Ethernet | Wi-Fi
- > Harmonics: 31
- > Power supply: 90...264 Vac/Vdc
- > Input current: .../5 A | .../1 A
- > Mounting: DIN rail

### Description

Three-phase power analyzer (balanced and unbalanced) for assembly on DIN rail, very small, with 4-quadrant measurements and integrated memory for data logging.

Main features include:

- Current measurement (depending on model) .../5 or.../1 A or.../250 mA or Rogowski-type sensors.
- Wi-Fi and Ethernet communications (Modbus TCP/IP).
- Integrated memory.
- With web Server to view, configure and download data.
- Compatible with the MyConfig app.
- Sealable with terminal cover.
- Display of THD% and up to the 31st harmonic (V, A).
- DIN rail format just 3 modules wide.
- High-contrast backlit display.
- 72 x 72 mm panel mount with front adapter

### Application

- Control application in distribution panels and low- and medium-voltage connections where an analyzer has to be installed on the DIN rail due to space constraints.
- Alarm control: Maximum value, minimum, delay and programmable interlocking.
- Logging of active or capacitive and inductive reactive energy.
- Capture and storage of instantaneous, maximum and minimum data of the electrical parameters measured.



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### Specifications

#### AC power supply

|                       |                       |
|-----------------------|-----------------------|
| Installation category | CAT III 300 V         |
| Consumption           | 2,7 ... 4 VA          |
| Frequency             | 50...60 Hz            |
| Nominal voltage       | 100 ... 240 V~ ± 10 % |

#### DC power supply

|                 |                          |
|-----------------|--------------------------|
| Consumption     | 1,8 ... 2 W              |
| Nominal voltage | 100 ... 240 Vd.c. ± 10 % |

#### Mechanical characteristics

|                                  |                               |
|----------------------------------|-------------------------------|
| Size (mm) width x height x depth | 52.5 x 118 x 74 (mm)          |
| Envelope                         | Self-extinguishing V0 plastic |
| Fastening                        | DIN rail                      |
| Weight (kg)                      | 0,224                         |

#### Environmental characteristics

|                                          |                           |
|------------------------------------------|---------------------------|
| Protection class                         | IP 30 / Front: IP 40 IK08 |
| Relative humidity (without condensation) | 5...95%                   |
| Storage temperature                      | -30 ... +80 °C            |
| Working temperature                      | -10 ... +50 °C            |

#### Current measurement circuit

|                                   |                    |
|-----------------------------------|--------------------|
| Installation category             | CAT III 300 V      |
| Nominal current (In)              | .../5 A or .../1 A |
| Phase current measuring range     | 2...120% In        |
| Maximum input current consumption | 0,9 VA             |
| Minimum current measurement       | 10 mA              |

#### Voltage measurement circuit

|                                      |                       |
|--------------------------------------|-----------------------|
| Installation category                | CAT III 300 V         |
| Input impedance                      | 400 kΩ                |
| Frequency measuring range            | 45...65 Hz            |
| Nominal voltage                      | 230V Ph-N, 400V Ph-Ph |
| Minimum measurement voltage (Vstart) | 11,5 V Ph-N           |

#### Communication Network

|                   |                         |
|-------------------|-------------------------|
| Protocol          | Modbus TCP - Web server |
| Technology / Type | Ethernet                |



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## Standards

|                                              |                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical safety, Maximum height (m)        | 2000                                                                                                                                                                                                                                                                                                                                              |
| Electrical safety, Contamination level/class | 2                                                                                                                                                                                                                                                                                                                                                 |
| Standards                                    | IEC/EN 61010-1; IEC/EN 61010-2-030; UNE-EN 55016-2-1; UNE-EN 61000-4-2; UNE-EN 61000-4-20; UNE-EN 61000-4-4; UNE-EN 61000-4-5; UNE-EN 61000-4-6; UNE-EN 61000-4-8; UNE-EN IEC 61000-4-11; UNE-EN 61000-4-3; ETSI-EN 301 489-1 Ver. 2.1.1; ETSI-EN 301 489-17 Ver. 3.1.1; UNE-EN 60068-2-1; UNE-EN 60068-2-2:2008; UNE-EN 60068-2-78; IEC 61557-12 |

## User interface

|              |                |
|--------------|----------------|
| Keyboard     | 3 keys         |
| Display type | LCD Custom COG |

## Measurement accuracy

|                               |                                 |
|-------------------------------|---------------------------------|
| Frequency measurement         | 0,50%                           |
| Phase current measurement     | 0,5% ± 1 digit (2 ... 120% In)  |
| Active power measurement (kW) | 0.5 % ±2 digit                  |
| Phase voltage measurement     | 0.5% ± 1 digit (5 ... 120 % Un) |

## Wireless communication

|                   |                                                     |
|-------------------|-----------------------------------------------------|
| Band              | Wi-Fi (2.4 ... 2.5 GHz.)                            |
| Technology / Type | Wi-Fi, IEEE 802.11 b/g, IEEE 802.11 n (Up 150 Mbps) |

## CVM-D50

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| CODE    | TYPE         | Power supply     | Input current     | Communications   | Protocol   | Harmonics | Memory |
|---------|--------------|------------------|-------------------|------------------|------------|-----------|--------|
| M56570. | CVM-D50-ITF  | 90...264 Vac/Vdc | .../5 A   .../1 A | Ethernet   Wi-Fi | Modbus/TCP | 31        | Yes    |
| M56580. | CVM-D50-MC   | 90...264 Vac/Vdc | .../250 mA        | Ethernet   Wi-Fi | Modbus/TCP | 31        | Yes    |
| M56590. | CVM-D50-FLEX | 90...264 Vac/Vdc | Rogowski          | Ethernet   Wi-Fi | Modbus/TCP | 31        | Yes    |

It has a free configuration App (MyConfig) and WebServer for configuration, visualization and data download



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### Dimensions



### Connections

