



CVM-D41 DC mA, Digital multimeter DIN rail, 2 output relays

Code: M566380040000

> Protocol: Modbus/RTU

> Módules: 6

> IP: 54

> Communications: RS-485

> N° relays: 2

> Digital inputs: 2

> Analog output: 1 (20 mA)

> System: DC (Shunt)

> Measurement Range (V): ± 150 / 300 /600 / 1000 / 1500 Vdc

> Measurement Range (A): 50 / 60 / 75 / 100 / 150 / 200 / 250 / 300 / 400 / 600 mV

> Parameters: V/A/kW/kWh dc

> Mounting: DIN Rail

Description

The CVM-D41 DC is a digital power analyzer for installing on a DIN rail. Its screens are operated using buttons to display different electrical parameters in a DC network of up to 1500 VDC, such as voltage, current, power and energy (A·h).

This analyzer has the following key features:

- o DIN rail installation.
- o DC voltage measurement up to 1500VDC CATIIII
- O Shunt current measurement
- o 2 digital inputs + 2 relay outputs + 1 analogue output (0/4...20 mA) or (0 / 2 ... 10 Vdc), depending on the
- o LED status indicator
- o RS-485 communications (Modbus/RTU)
- o Configuration via Power Studio SCADA

Application

Measurement and management of installations with a DC power supply:

- Industrial Applications
- o Electric vehicle charging points
- o Self-supply systems
- O Solar photovoltaic Installations
- HVAC
- Industrial process control







Digital instruments: Programmabled DC measurement Central

Code: M566380040000

Specifications

| Installation category | CAT III 300V |
|--|--|
| | |
| DC power supply | |
| Installation category | CAT III 300 V |
| Consumption | 2.5 4.5 W |
| Nominal voltage | 20 60 Vdc |
| Mechanical characteristics | |
| Size (mm) width x height x depth | 108 x 117.43 x 74 (mm) |
| Weight (kg) | 0,7 |
| Environmental characteristics | |
| Relative humidity (without condensation) | ≤ 93 % |
| Storage temperature | -25 +70 °C |
| Working temperature | -25 +70 °C |
| Current measurement circuit | |
| Installation category | CAT III 1500 V |
| Consumption | <1VA |
| Nominal current (In) | Shunt: 50 / 60 /75 / 100 / 150 / 200 / 250 / 300 / 400 / 600 mV |
| Allowable overload | 1.2 In continuous (max.1500 Vdc) |
| Voltage measurement circuit | |
| Installation category | CAT III 1500 V |
| Consumption | < 1 VA |
| Nominal voltage | ± 150 / 300 / 600 / 1000 / 1500 Vdc |
| Maximum permanent measurement voltage | 1.2 Un continuous |
| Standards | |
| Electrical safety, Maximum height (m) | 2000 |
| Electrical safety, Contamination level/class | Pollution resistance 2 |
| Standards | IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-11, IEC 61010-1, IEC 61326-1, IEC 61010-2-030 |
| User interface | |
| Display type | LCD 5 digits |
| | |







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| Input/output insulation | 4000 V ~ |
|-------------------------------|------------------------|
| Quantity | 2 |
| Туре | Potential-free contact |
| Maximum short-circuit current | 3.3 mA dc |
| Maximum open circuit voltage | 17 V dc |

Analogue outputs

| Quantity | 1 | | | | |
|---------------------------------------|------------------------------|--|--|--|--|
| Linearity | 0.5 % | | | | |
| Current mode, nominal range | 0 20 mA, 4 20 mA, 4-12-20 mA | | | | |
| Current mode: maximum load resistance | 350 Ω | | | | |
| Maximum internal voltage | 17 V dc | | | | |

Digital relay outputs

| Quantity | 2 |
|----------------------------|-----------------------------------|
| Maximum current | 2.5 A |
| Electrical life | 1 x 10 ⁵ (250 V~ / 5A) |
| Maximum switching capacity | 625 VA |

Measurement accuracy

| Phase current measurement | Class 0.5 |
|---------------------------------|-----------|
| Active energy measurement (kWh) | Class 1 |
| Active power measurement (kW) | Class 1 |
| Phase voltage measurement | Class 0.5 |

Serial communication

| Protocol | ModBus RTU |
|-------------------|------------|
| Technology / Type | RS-485 |

CVM-D41 DC

Programmable DC measurement device

| CODE | TYPE | System | Measurement Range (V) | Measurement Range (A) | N° relays | Digital inputs | Analog output | Módules | Protocol |
|---------------|---------------|------------|---------------------------------------|--|-----------|-------------------|------------------|---------|------------|
| Multimeter | | | | | | | | | |
| M56638. | CVM-D41 DC mA | DC (Shunt) | ± 150 / 300 /600 / 1000 / 1500 Vdc | 50 / 60 / 75 / 100 / 150 / 200 / 250 / 300 / 400 / 600 mV | 2 | 2 | 1 (20 mA) | 6 | Modbus/RTU |
| M566380040000 | CVM-D41 DC mA | DC (Shunt) | ± 150 / 300 /600 / 1000 / 1500 Vdc | 50 / 60 / 75 / 100 / 150 / 200 / 250 / 300 / 400 / 600 mV | 2 | 2 | 1 (20 mA) | 6 | Modbus/RTU |



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Dimensions Connections





