



## DM45-CM

DM45-CM, Ammeter

Code: M20941. DESCATALOGADO

- > N° relays: 1
- > System: AC
- > Measure: 600 Vac / .../5 A /10...600 Hz
- > Paramètre: Analyzer (V, A, Hz, THD)
- > Mounting: DIN rail

### Description

- Electrical parameter indicator equipment
- Its design enables the installation of the unit on small panels
- It measures voltage, current, frequency and harmonic distortion, depending on the type
- Fully sealed
- Fully programmable alarm relay
- Robust and compact
- Stores maximum and minimum values

### Application

- Displays one or various electrical parameters of a sub-panel, control process or determined machine.
- Alarm system: the unit's internal relay can act on contactors, sound and/or light devices to carry out a protection or warning operation.



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## Specifications

### AC power supply

|                 |                |
|-----------------|----------------|
| Consumption     | 5 VA           |
| Frequency       | 40...70 Hz.    |
| Nominal voltage | 115 / 230 Vc.a |

### Mechanical characteristics

|                                  |                        |
|----------------------------------|------------------------|
| Size (mm) width x height x depth | 36 x 85 x 63.8 (mm)    |
| Envelope                         | Self-extinguishing ABS |
| Weight (kg)                      | 0,19                   |

### Environmental characteristics

|  |   |
|--|---|
| Protection class                         | IP 20 / IP 54 with terminal cover (optional) (for models Ø 85, 100, 116 mm) |
| Relative humidity (without condensation) | 5...95 %  |
| Storage temperature                      | -40...+70 °C  |
| Working temperature                      | -20...+50 °C  |

### Current measurement circuit

|                             |             |
|-----------------------------|-------------|
| Refresh rate                | 2 lectura/s |
| Maximum current             | 5 Ac.a.     |
| Minimum current measurement | 0,05 Aac    |

### Voltage measurement circuit

|                                      |              |
|--------------------------------------|--------------|
| Consumption                          | 0,6 VA       |
| Frequency measuring range            | 10...600 Hz. |
| Minimum measurement voltage (Vstart) | 50 Vac.      |
| Maximum value                        | 600 Vc.a.    |

### User interface

|                           |   |
|---------------------------|---|
| LED                       | 4                                       |
| Range                     | Resolución mínima 30 / Valor máximo 600 |
| Resolution of the display | 30                                      |
| Display type              | 7 segments (4 digits), red              |

### Standards

|           |  |
|-----------|--|
| Standards | EN 61000-6-3, EN 61000-6-1, IEC 61010-1, IEC 60664 |
|-----------|--|

### Digital relay outputs

|                            |            |
|----------------------------|------------|
| Contact-coil insulation    | 2000 Vc.a. |
| Contact-contact insulation | 750 Vc.a.  |



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| Nominal current              | 5 Aac     |
| Insulation resistance        | > 1000 MΩ |
| Resistive load (max.)        | 750 VA    |
| Maximum open contact voltage | 250 Vac   |

## Measurement accuracy

|                           |                        |
|---------------------------|------------------------|
| Phase current measurement | ± 0,5 % FS (± 1 digit) |
|---------------------------|------------------------|

Other information of interest: Size: 2 modules



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## Dimensions



## Connections

