

Digital instruments

DM45 Series

Digital indicator for DIN rail mounting

**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.

Features

| | DM 45 V | DM 45 A | DM 45 AD | DM 45 F |
|-----------------------------|--|-------------|----------|-------------|
| Power supply circuit | 230 Vac (± 10 %) | | | |
| Frequency | 40 ... 70 Hz | | | |
| Consumption | 5 V·A | | | |
| Measurement circuit | | | | |
| Scope | 600 Vac | ... / 5 Aac | 30 Aac | 10...600 Hz |
| Accuracy | +/- 0.5 % FE +/- 1 digit | | | |
| Overvoltage (permanent) | 1.05 U_n | - | - | 1.05 U_n |
| Overload (permanent) | - | 1.2 I_n | | - |
| Consumption | 0.6 V·A | | | |
| Frequency | 10...600 Hz | | | |
| Display | 4 digits with 7 segments, red colour + 4 auxiliary LEDs | | | |
| Ambient conditions | | | | |
| Storage temperature | - 40 ... + 70 °C | | | |
| Operating temperature | - 20 ... + 50 °C | | | |
| Relative humidity | 5 ... 95 % non-condensing | | | |
| Build features | | | | |
| Box material | Self-extinguishing ABS plastic | | | |
| Degree of protection | Front panel: IP 54 | | | |
| Weight | 170 g | | | |
| Standards | IEC 1010, IEC 664, IEC/EN 62053-31 | | | |
| Safety standards | IEC61010 | | | |

* Other possible auxiliary power supplies
9...18 Vd.c. / 18...36 Vd.c. / 36...72 Vd.c.

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References
DM. Voltmeter

| Measurement | Parameters | Input | Relay | Type | Code |
|-------------|------------|---------------|-------|---------|--------|
| AC | V | 30..0.600 Vac | 1 | DM 45 V | M20901 |

DM. Ammeters

| Measurement | Parameters | Input | Relay | Type | Code |
|-------------|------------|-----------|-------|----------|--------|
| AC | A | ... / 5 A | 1 | DM 45 A | M20911 |
| AC | A | 30 A | 1 | DM 45 AD | M20921 |

DM. Frequency-meter

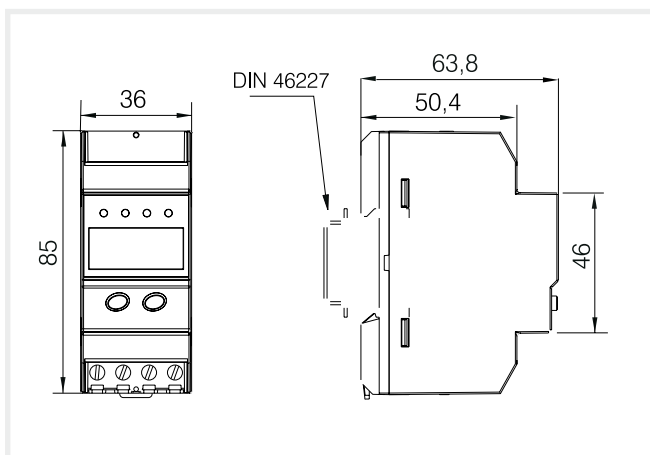
| Measurement | Parameters | Input | Relay | Type | Code |
|-------------|------------|---------------|-------|---------|--------|
| AC | Hz | 10 ... 600 Hz | 1 | DM 45 F | M20931 |

DM. Measurement stations

| Measurement | Parameters | Input | Relay | Type | Code |
|-------------|---------------|-------------------------------|-------|-----------|--------|
| AC | V, A, Hz, THD | 600 V / .../5 A / 10...600 Hz | 1 | DM 45 CM | M20941 |
| AC | V, A, Hz, THD | 600 V c / 30 A / 10...600 Hz | 1 | DM 45 CMD | M20951 |

Coding table

| Code | Internal Code |
|------------------------|--------------------|
| M 2 X X X X 0 0 X | ↑ |
| Auxiliary power supply | Standard (230 V) 0 |
| | 100 ... 115 V ac 1 |
| | 18 ... 36 V dc 7 |

Dimensions

Connections
