

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 ($\pm 10\%$)			
Frequency	40 ... 70 Hz			
Consumption	5 V·A			
Measurement circuit				
Scope	600 Vac	... / 5 Aac	30 Aac	10...600 Hz
Accuracy	$\pm 0.5\%$ 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	$-40 \dots +70\text{ }^\circ\text{C}$			
Operating temperature	$-20 \dots +50\text{ }^\circ\text{C}$			
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

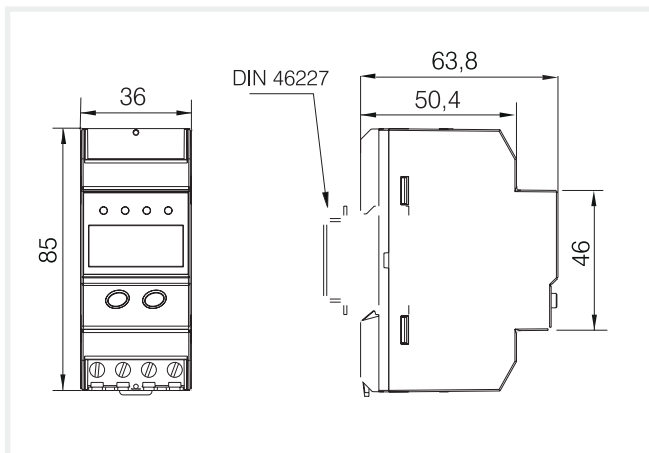
Measurement	Parameters	Input	Relay	Type	Code
AC	Hz	10 ... 600 Hz	1	DM 45 F	M20931

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

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

Dimensions

Connections
