



DCB-48 mVdc, digital process indicator, 48 x 48

Code: M22140.

> Scale: 60 mV / 75 mV / 100 mV / 150 mV / 200 mV

N° relays: -System: DCMounting: PannelModules: 48 x 48

Description

Panel-mounted digital instruments that display the value of an electrical variable measured or proportional value of a process signal on its screen (depending on the model). Designed to supervise, regulate and control units with the use of relay outputs that are built in the unit.

The DCB series displays the value of an electrical variable measured or proportional value of a process signal on its screen (depending on the model). The unit displays the electrical parameters of a single-phase installation, depending on the model, such as the voltage, current, etc. In DC systems, the unit can measure the voltage, current, frequency and other variables associated with industrial processes. The AC models take the measurements in true RMS (TRMS).

All models in this range have the following features:

- \circ Universal power supply at 80 ... 270 $V_{ac/dc}$ and optional power supply at 24 V_{dc}
- \circ IP 54 protection degree on the front panel
- o High measurement accuracy
- o Programmable measuring input
- \circ Alarm delays and interlockings
- o Galvanic insulation between external circuits
- $\circ \ \ \mathsf{Self\text{-}configurable} \ \mathsf{decimal} \ \mathsf{point}$
- o Can be installed on 48 x 48 or 72 x 72 mm panels, depending on the model

Application

These digital instruments have many different applications and can be used in:

- Industrial applications
- Air conditioning units
- Solar photovoltaic energy installations
- o Industrial process control systems







Panel-mounted digital instruments

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Specifications

Installation category	CAT III 300 V
Consumption	0.8 3 VA
Frequency	50/60 Hz
Nominal voltage	80270 V ~
OC power supply	
Installation category	CAT III 300 V
Consumption	0.4 0.5 W
Nominal voltage	80270 Vdc
Environmental characteristics	
Protection class	Front: IP54, Rear: IP20
Relative humidity (without condensation)	≤ 95 %
Storage temperature	-40 +85 °C
Working temperature	-40 +70 ° C
Mechanical characteristics	
Envelope	Polycarbonate + ABS
Weight (kg)	0,1
oltage measurement circuit	
Installation category	CAT III 300 V
Installation category Consumption	CAT III 300 V < 0.1 VA
Consumption	< 0.1 VA
Consumption Input impedance	< 0.1 VA > 1 MΩ
Consumption Input impedance Nominal voltage Maximum permanent measurement voltage	< 0.1 VA > 1 MΩ 60 mV / 75 mV / 100 mV / 150 mV / 200 mV (dc)
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Consumption Input impedance Nominal voltage Maximum permanent measurement voltage Standards	< 0.1 VA > 1 MΩ 60 mV / 75 mV / 100 mV / 150 mV / 200 mV (dc) 1.2 Un continous, 2 Un instantaneous (1 min)
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Consumption Input impedance Nominal voltage Maximum permanent measurement voltage Standards Electrical safety, Maximum height (m) Electrical safety, Installation category Electrical safety, Contamination level/class Standards	< 0.1 VA > 1 MΩ 60 mV / 75 mV / 100 mV / 150 mV / 200 mV (dc) 1.2 Un continous, 2 Un instantaneous (1 min) 2000 CAT III 300 V Pollution resistance 2 IEC 61010-1, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC







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Measurement accuracy

Phase voltage measurement 0.5 %

DCB Digital instrument

CODE	TYPE	Scale	N° relays	System	Modules
Voltmeters					
M22110.	DCB-48 Vac	63,5 V / 100 V / 110 V /230 V /380 V /480 V	-	AC	48 x 48
M22210.	DCB-72 Vac	63,5 V / 100 V / 110 V /230 V /380 V /480 V	-	AC	72 x 72
M22212.	DCB-72 Vac-20R	63,5 V / 100 V / 110 V /230 V /380 V /480 V	2	AC	72 x 72
M22120.	DCB-48 LVdc	± 10 V	-	DC	48 x 48
M22220.	DCB-72 LVdc	± 10 V	-	DC	72 x 72
M22222.	DCB-72 LVdc-20R	± 10 V	2	DC	72 x 72
M22130.	DCB-48 HVdc	± 500 V	-	DC	48 x 48
M22230.	DCB-72 HVdc	± 1500 V	-	DC	72 x 72
M22232.	DCB-72 HVdc-20R	± 1500 V	2	DC	72 x 72
Ammeters					
M22150.	DCB-48 Aac	1 A / 5 A	-	AC	48 x 48
M22250.	DCB-72 Aac	1 A / 5 A	-	AC	72 x 72
M22252.	DCB-72 Aac-20R	1 A / 5 A	2	AC	72 x 72
M22170.	DCB-48 Adc	1 A / 5 A	-	DC	48 x 48
M22270.	DCB-72 Adc	1 A / 5 A	-	DC	72 x 72
M22272.	DCB-72 Adc-20R	1 A / 5 A	2	DC	72 x 72
Process indi	icators				
M22140.	DCB-48 mVdc	60 mV / 75 mV / 100 mV / 150 mV / 200 mV	-	DC	48 x 48
M22240.	DCB-72 mVdc	60 mV / 75 mV / 100 mV / 150 mV / 200 mV	-	DC	72 x 72
M22242.	DCB-72 mVdc-20R	60 mV / 75 mV / 100 mV / 150 mV / 200 mV	2	DC	72 x 72
M22160.	DCB-48 mAdc	-20 +20 mA / 020 mA / 420 mA	-	DC	48 x 48
M22260.	DCB-72 mAdc	-20 +20 mA / 020 mA / 420 mA	-	DC	72 x 72
M22262.	DCB-72 mAdc-20R	-20 +20 mA / 020 mA / 420 mA	2	DC	72 x 72



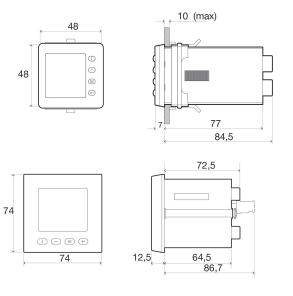


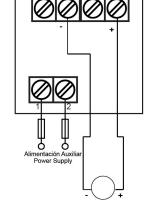


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Dimensions Connections





Units: mm

