

DHC-96 CPM 1500, digital multimeter 96 x 48, 2 output relays

Code: M223C8.

- > Protocol: Modbus/RTU
- > IP: 54
- > Communications: RS-485
- > N° relays: 2
- > Digital inputs: 2
- > Analog output: 1 (20 mA)
- > System: DC (Shunt)
- > Measurement Range (V): \pm 150 / 300 / 600 / 1000 / 1500 Vdc
- > Measurement Range (A): 50 / 60 / 75 / 100 / 150 / 200 / 250 / 300 / 400 / 600 mV
- > Paramètre: V/A/kW/kWh dc
- > Mounting: Pannel
- > Modules: 96 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 **DHC-96** 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:

- Universal power supply at 80...270 V_{ac/dc} (DHC-96-CPM: 100...270 Vac/dc) and optional power supply at 16
 ... 36 V_{dc} (DHC-96-CPM: 20...60 Vdc)
- IP 54 protection degree on the front panel
- High measurement accuracy
- Programmable measuring input
- Alarm delays and interlockings
- Galvanic insulation between external circuits
- Self-configurable decimal point
- Installed on 96 x 49 mm panels

Application

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

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

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Digital instruments: Programmabled DC measurement Central

Code: M223C8.

Specifications

Installation category	CAT III 300V				
Consumption	6 18 VA				
Frequency	50/60 Hz				
Nominal voltage	100270 V ~				
C power supply					
Installation category	CAT III 300 V				
Consumption	1.3 2 W				
Nominal voltage	100270 Vdc				
lechanical characteristics					
Size (mm) width x height x depth	96 x 49 x 107.7 (mm)				
Screw type	Power supply and Measurement: PZ1, Other terminals: PZ0				
Torque setting	Power supply and Measurement: \leq 0.5 Nm, Other terminals: 0.5 0.6 Nm				
Communications cable cross-section	≤ 2.5 mm ²				
Cable gauge at power supply terminals	$\leq 1 \text{ mm}^2$				
Cable gauge at input and output terminals	≤ 2.5 mm ²				
Cable gauge at current terminals	$\leq 1 \text{ mm}^2$				
Cable gauge at voltage terminals	$\leq 1 \text{ mm}^2$				
Weight (kg)	228				
nvironmental characteristics					
Protection class	Front: IP54, Rear case: IP20				
Relative humidity (without condensation)	≤ 93 %				
Storage temperature	-25 +70 °C				
Working temperature	-25 +55 ℃				
urrent measurement circuit					
Installation category	CAT III 1500 V				
Consumption	< 1 VA				
Nominal current (In)	Shunt: 50 / 60 /75 / 100 / 150 / 200 / 250 / 300 / 400 / 600 mV				
Allowable overload	1.2 In continuous				
oltage measurement circuit					
Installation category	CAT III 1500 V				
Consumption	< 1 VA				
Input impedance	> 1 MΩ				

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Nominal voltage	± 150 / 300 / 600 / 1000 / 1500 Vdc				
Maximum permanent measurement voltage	1.2 Un continuous				
Communications					
Data bits	8				
Stop bits (ModBus)	1-2				
Parity	without, even, odd				
Protocol	ModBus RTU				
Speed	2400-4800-9600-19200- (38400: Option available from v. 1014 of the device software)				
Standards					
Electrical safety, Maximum height (m)	2000				
Electrical safety, Installation category	CAT III 300 V				
Standards	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IE 61000-4-8, IEC 61000-4-11, IEC 61010-1, IEC 61326-1				
User interface					
Keyboard	4 keys				
Display type	LCD 5 digits				
Digital inputs					
Input/output insulation	2000 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				
Maximum switching capacity	625 VA				





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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

DHC-96 CPM

Digital instruments: Programmabled DC measurement Central

CODE	TYPE	Protocol	Communications	N° relays	Analog output	System	Measurement Range (V)	Measurement Range (A)	Paramètre	Modules
Multimeter										
M223A8.	DHC-96 CPM	Modbus/RTU	RS-485	2	1 (20 mA)	DC (Shunt)	± 150 / 300 /600 Vdc	50 / 60 / 75 / 100 / 150 / 200 / 250 / 300 / 400 / 600 mV	V/A/kW/kWh dc	96 x 48
M223B8.	DHC-96 CPM-HS	Modbus/RTU	RS-485	2	1 (20 mA)	DC (Hall)	± 150 / 300 /600 Vdc	4 Vdc	V/A/kW/kWh dc	96 x 48
M223C8.	DHC-96 CPM 1500	Modbus/RTU	RS-485	2	1 (20 mA)	DC (Shunt)	± 150 / 300 /600 / 1000 / 1500 Vdc	50 / 60 / 75 / 100 / 150 / 200 / 250 / 300 / 400 / 600 mV	V/A/kW/kWh dc	96 x 48

Option of 0/2... 10 VDC outputs on demand



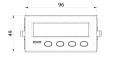


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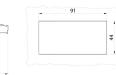
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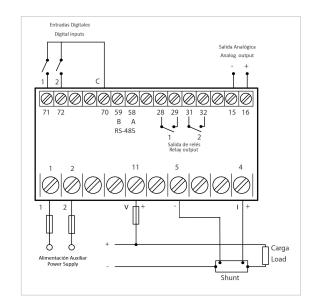
Dimensions

Connections









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