



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

Code: M223B8.

> Protocol: Modbus/RTU

> IP: 54

> Communications: RS-485

> Nº relays: 2 > Digital inputs: 2

> Analog output: 1 (20 mA)

> System: DC (Hall)

> Measurement Range (V): ± 150 / 300 /600 Vdc

> Measurement Range (A): 4 Vdc > 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:

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

### **Application**

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

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







Digital instruments: Programmabled DC measurement Central

Code: M223B8.

## **Specifications**

Installation category	CAT III 300V
Consumption	6 18 VA
Frequency	50/60 Hz
Nominal voltage	100270 V ~
Nominal voltage	100270 ¥
DC power supply	
Installation category	CAT III 300 V
Consumption	1.3 2 W
Nominal voltage	100270 Vdc
Mechanical characteristics	
Size (mm) width x height x depth	96 x 49 x 107.8 (mm)
Weight (kg)	0,24
Environmental characteristics	
Relative humidity (without condensation)	≤ 93 %
Current measurement circuit	
Installation category	CAT III 600 V
Consumption	< 1 VA
Nominal current (In)	Sensorhalle ± 4 V
Allowable overload	1.2 In continuous
Voltage measurement circuit	
Installation category	CAT III 600 V
Consumption	< 1 VA
Input impedance	> 1 MΩ
Nominal voltage	± 150 / 300 / 600 Vdc
Maximum permanent measurement voltage	1.2 Un continuous
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, II 61000-4-8, IEC 61000-4-11
User interface	
Keyboard	4 keys







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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: 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 <sup>5</sup>
Maximum switching capacity	625 VA
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
Serial communication	
Protocol	ModBus RTU
Technology / Type	RS-485

### 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
Multimet	er									
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	50 / 60 / 75 / 100 / 150 / 200 /	V/A/kW/kWh dc	96 x 48

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







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#### **Dimensions** Connections





