

Ideal for Renewables!



DH96 CPM

DC Power Meter



FEATURES

- Measures and displays DC Voltage, Current, Power & Energy
- Voltage range selectable: 100Vdc, 300Vdc or 800Vdc (1000Vdc - on request)
- Current measurement uses 60mV shunt
- Front panel mounting
- Large LED 5 digit display
- Setup configuration via secure, front panel keys
- Min and Max values
- Relay outputs (optional)
- Analog output (optional)
- Modbus RTU communications RS232 or RS-485 (optional)
- Compatible with **PowerStudio** Energy Management Software

MODULE OPTIONS*

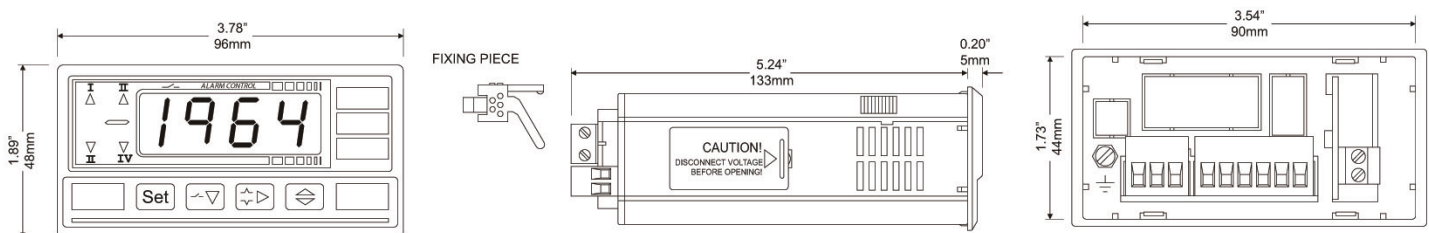
- ✓ 2 x relay outputs
- ✓ 4 x relay outputs
- ✓ 2 x relay outputs & RS-485 or RS-232
- ✓ 4 x relay outputs & RS-485 or RS-232
- ✓ Analog output 0 / 4.. 20mA
- ✓ Analog output 0 / 2.. 10Vdc
- ✓ RS-232 Communications (Modbus)
- ✓ RS-485 Communications (Modbus)
- ✓ Analog output 0 / 4.. 20mA & 2 relays
- ✓ DC Auxiliary power supply

* not all modules compatible with every DH96 model

OTHER DH96 MODELS

Designator	Description
A	AC Voltmeter or Ammeter
C	DC Voltmeter or Ammeter (fixed ranges)
AV	DC Voltmeter and Ammeter
TMP	Temperature
P	Universal process indicator
FT	Process rate / Totalizer
CT	Chronometer and pulse meter
WG	Ground fault current indicator
SG	Loadcell indicator

DIMENSIONS



Call Toll Free: 1-877-PQ-SOLNS (1-877-777-6567) or 303-805-5252 email: info@measurlogic.com

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SPECIFICATIONS

Display

7 segment
5 Digit (.55" - 14mm High)
Hi-efficiency red color
Over-range indication: "..."
3 Alarm LED's
Programmable decimal point
Data update time is 500msecs

Input Circuit

A/D Converter resolution 13 bit
Conversion method Successive approximation
Sampling Rate 2 readings / second

Accuracy

DC Current 0.1% ± 1 digit
DC Voltage 0.1% ± 1 digit
DC Power 0.2% ± 1 digit

Measurement Range 1.2 x rated value
Voltage range Selectable for 100Vdc, 300Vdc or 800Vdc
Voltage overload 1.5 x Vn continuous, 3 x Vn for 10 seconds
Voltage burden 0.001 VA
Current Range .../60mV shunt
Current overload 2 x In continuous, 5 x In for 5 seconds
Current burden 0.003 VA

Isolation between input, measurement circuit and outputs

Test Voltage 3kV RMS 50Hz for 1 minute
Pulse test 4kV (1.2/50us)

Auxiliary Supply

Rated Voltage 115Vac / 230Vac (-15%, +20%)
Frequency Range 45 to 65 Hz
Burden 4VA (without optional card)
7VA (maximum burden)

Environmental Conditions

Storage Temperature -40°C to +70°C
Operating Temperature -10°C to +65°C

Relay Characteristics - 1 changeover contact

Rated AC current 8A
Maximum AC current 10A
Rated Voltage 250Vac 50/60Hz
Maximum Voltage (VDE 0435) 440Vac
Maximum AC resistive load 2000 VA
Isolation resistance at 500V > 104 MΩ
Contact coil isolation 6kV ac
Contact - contact isolation 1kV ac
Mechanical endurance > 20 x 106 operations
Electrical endurance > 2 x 106 operations at 5A and 35V

General characteristics

Dimensions 96 x 48 x 138 mm
Weight 550g
Case Material Self extinguishing ABS, anthracite grey
Protection Front panel: IP54
IP65 with optional front panel cover
Case: IP20
Terminals: IP20

Standards and safety

Safety IEC 601010 / IEC 348 / IEC 664
EN 50081-2 / EN 50082-2 / IEC 751

I/O and Communications Options:

Relay Characteristics - 1 single contact

Rated AC current 5A
Maximum AC current 5A
Rated Voltage 250Vac 50/60Hz
Isolation resistance at 500V > 103 MΩ
Contact coil isolation 2kV ac - 1 minute
Contact - contact isolation 1kV ac - 1 minute
Mechanical endurance > 20 x 106 operations
Electrical endurance > 100 x 103 operations

Analog Outputs

Resolution 14 bit
Maximum load impedance for current output 500Ω
Maximum load impedance for voltage output 500Ω
Isolation between analog output and aux. 3kV
Isolation between analog output and input 3kV
Response time < 100msecs
Temperature coefficient 100ppm/°C

Communications (RS-232)

ESD protection up to 10kV
Overload protection and ground short circuit 30V without damage
Blocking protection Yes
Standard EIA RS-232

Communications (RS-485)

ESD protection up to 2kV
Overload and short circuit protection Yes
Connect / disconnect from active system Yes
Standard EIA RS-485

Distributor:

Call Toll Free: 877-PQ-SOLNS (877-777-6567)

Fax (425) 799-4780

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13R1

Technical details subject to change

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