DMS-20PC-3-DCM

+2 to +11Vdc, Self-Powered LED Display, DC Voltage Monitor



FEATURES

- Self-powered, only two connections required
- +2.00 to +11.00Vdc input range
 0.01V resolution: ±0.05% accuracy

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Murata Power Solutions

- Ideal for low-voltage (3.3V) power supply monitoring
- Digital replacement for analog panel meters
- 0.37"/9.4mm, bright red, LED display
- Subminiature 1.38" x 0.88" x 1.0" package
- Super reliable, epoxy-encapsulated construction
- Reverse polarity protected
- –25 to +60°C temperature range
- Low power consumption

Functional Specifications

Input

Voltage Range ① Current Consumption @Vin = 2/3/5/9Vdc Reverse Polarity Protection +2.00 to +11.00Vdc 55/30/17/10mA (max.)

15V (max.)

2.5 readings/second 0.01V ±0.01V (typ.), ±0.02V (max.)

±0.3 counts/°C (max.)

1.38" x 0.88" x 1.00"

6-8 in-lb (0.7 - 0.9N-m)

1 ounce (28 grams)

Polycarbonate

-25 to +60°C -40 to +75°C

0 to 95%

3 digit. red LED. 0.37"/9.4mm

Mechanical

Performance

Sampling Rate

Accuracy @ +25°C

(-25 to +60°C)

Temperature Drift

Resolution

Dimensions Display Type Weight Case Material 6-32 screw torque

Environmental

Operating Temperature Storage Temperature Humidity (Non-condensing)

 Operation and accuracy at inputs above or below this range are not specified.

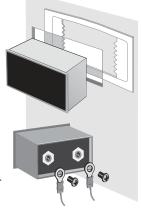


Murata Power Solutions' DMS-20PC-3-DCM self-powered dc voltage monitor is perfect for precision monitoring of all low-voltage power supplies. Simply connect a positive dc voltage across its two rear terminals and the meter is fully operational with no additional components required! A measurement resolution of 0.01Vdc enables precise adjustment

of power supply outputs. The large, 0.37"/9.4mm, bright red, LED display, unlike most LCD's, can be easily read from 15 feet away under virtually any lighting conditions. Built-in reverse polarity protection assures quick, trouble-free installation.

The DMS-20PC-3-DCM utilizes a high-resolution, 3 digit analog-to-digital converter and precision metal-film resistors to achieve outstanding performance over its operating temperature range of -25 to $+60^{\circ}$ C. A rugged, epoxyencapsulated, polycarbonate case provides excellent protection against moisture, shock and vibration.

The DMS-20PC-3-DCM uses the same panel cutout dimensions as all DMS-20 Series panel voltmeters and monitors; this feature assures uniform displays in multiple-meter applications.



Typical panel mount installation and suggested wiring (user supplied)

Ordering Information

DMS-20PC-3-DCM-C DMS-20-CP-C DMS-BZL3-C DMS-BZL4-C +2.00 to +11.00V dc voltage monitor Panel cutout punch Panel mount bezel assembly Panel mount bezel with sealing gasket

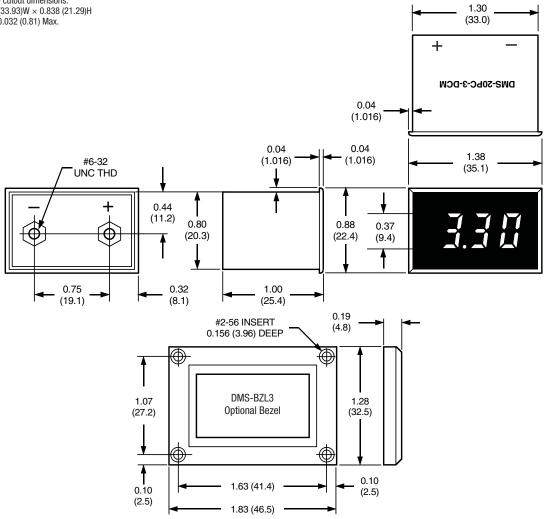
Brass screws (6-32 thread) and a panel-mount retaining clip are supplied with each meter



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MECHANICAL SPECIFICATIONS



Murata Power Solutions, Inc. 11 Cabot Boulevard, Mansfield, MA 02048-1151 U.S.A. ISO 9001 and 14001 REGISTERED



This product is subject to the following operating requirements and the Life and Safety Critical Application Sales Policy: Refer to: http://www.murata-ps.com/requirements/

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