

DMS-20PC-3-DCM

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



FEATURES

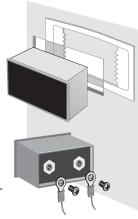
- Self-powered, only two connections required
- +2.00 to +11.00Vdc input range
- 0.01V resolution; ±0.05% accuracy
- Ideal for low-voltage (3.3V) power supply monitoring
- Digital replacement for analog panel meters
- 0.37"/9.4mm, bright red, LED display
- Subminiature 1.38" x 0.88" x 1.0" package
- Super reliable, epoxy-encapsulated construction
- Reverse polarity protected
- -25 to +60°C temperature range
- Low power consumption

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°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)

Functional Specifications

Input

Voltage Range ① +2.00 to +11.00Vdc

Current Consumption

@Vin = 2/3/5/9Vdc 55/30/17/10mA (max.)

Reverse Polarity Protection 15V (max.)

Performance

Sampling Rate 2.5 readings/second

Resolution 0.01\

Accuracy @ $+25^{\circ}$ C $\pm 0.01V$ (typ.), $\pm 0.02V$ (max.)

Temperature Drift (-25 to +60°C)

±0.3 counts/°C (max.)

Mechanical

Dimensions 1.38" x 0.88" x 1.00"
Display Type 3 digit, red LED, 0.37"/9.4mm
Weight 1 ounce (28 grams)
Case Material Polycarbonate

6-32 screw torque Folycarbonate
6-8 in-lb (0.7 – 0.9N-m)

Environmental

 $\begin{array}{ll} \text{Operating Temperature} & -25 \text{ to } +60^{\circ}\text{C} \\ \text{Storage Temperature} & -40 \text{ to } +75^{\circ}\text{C} \\ \text{Humidity (Non-condensing)} & 0 \text{ to } 95\% \\ \end{array}$

Ordering Information

DMS-20PC-3-DCM-C +2.00 to +11.00V dc voltage monitor

DMS-20-CP-C Panel cutout punch
DMS-BZL3-C Panel mount bezel assembly
DMS-BZL4-C Panel mount bezel with sealing gasket

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



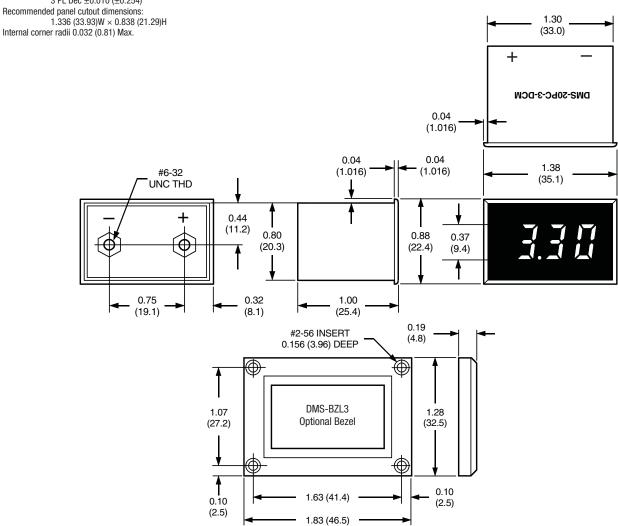


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MECHANICAL SPECIFICATIONS

 $\begin{array}{ll} \mbox{Dimensions in inches (millimeters)} \\ \mbox{Tolerances:} & 2 \mbox{ PL Dec } \pm 0.02 \ (\pm 0.51) \\ \mbox{ 3 PL Dec } \pm 0.010 \ (\pm 0.254) \\ \mbox{Recommended panel cutout dimensions:} \\ \mbox{ 1.336 } (33.93) \mbox{W} \times 0.838 \ (21.29) \mbox{H} \\ \end{array}$



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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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