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, epoxy-encapsulated, 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	0.01V
Accuracy @ +25°C	±0.01V (typ.), ±0.02V (max.)
Temperature Drift	
(−25 to +60°C)	±0.3 counts/°C (max.)

Mechanical
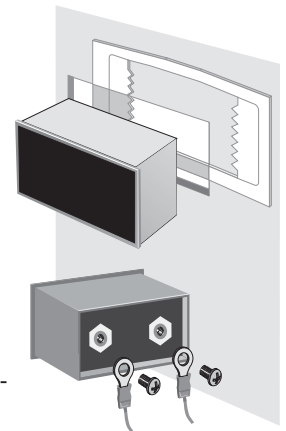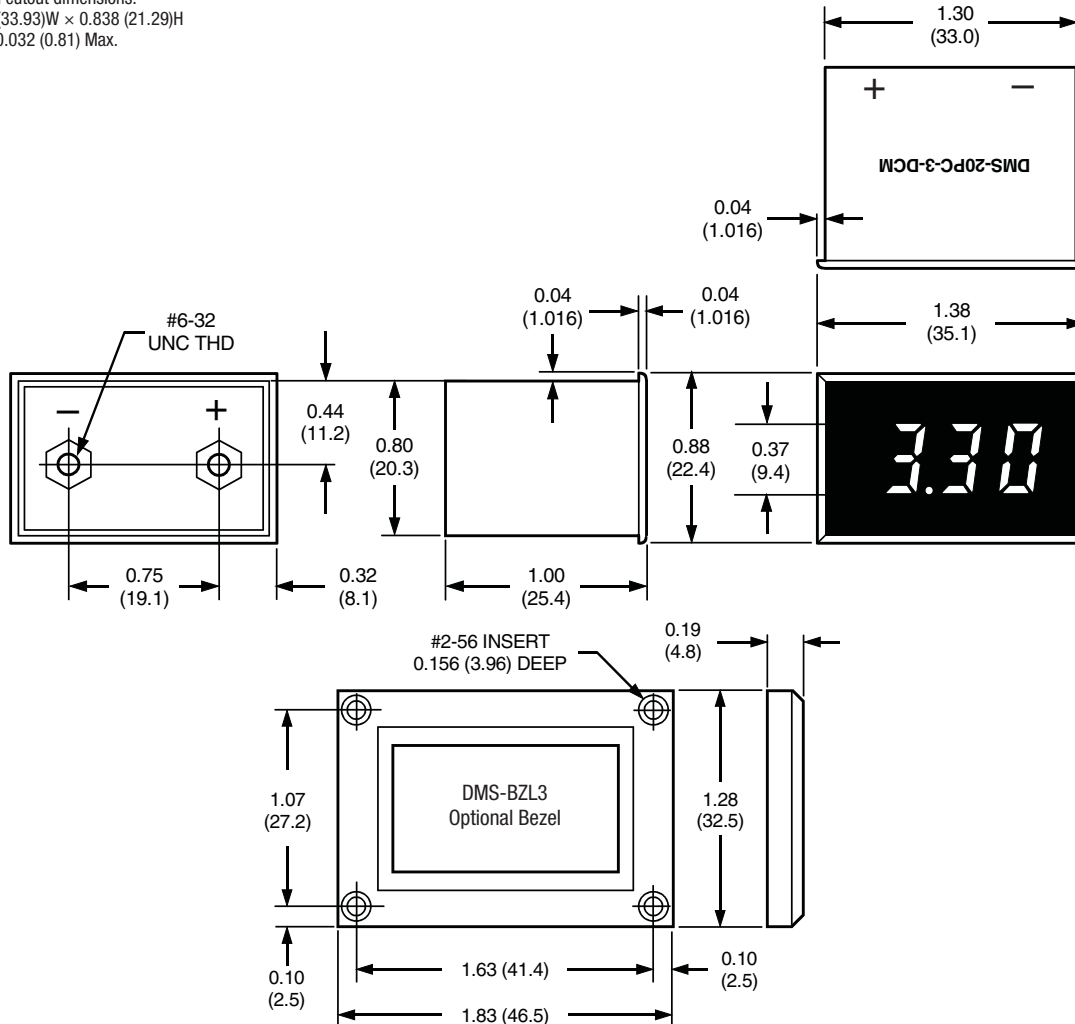|	
Dimensions	1.38" x 0.88" x 1.00"
Display Type	3 digit, red LED, 0.37"/9.4mm
Weight	1 ounce (28 grams)
Case Material	Polycarbonate
6-32 screw torque	6-8 in-lb (0.7 – 0.9N-m)

Environmental
Operating Temperature	−25 to +60°C
Storage Temperature	−40 to +75°C
Humidity (Non-condensing)	0 to 95%

① Operation and accuracy at inputs above or below this range are not specified.

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

RoHS COMPLIANT

25 For full details go to www.murata-ps.com/rohs

MECHANICAL SPECIFICATIONS

Dimensions in inches (millimeters)
Tolerances: 2 PL Dec ±0.02 (±0.51)
                 3 PL Dec ±0.010 (±0.254)
Recommended panel cutout dimensions:
         1.336 (33.93)W × 0.838 (21.29)H
Internal corner radii 0.032 (0.81) Max.

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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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