



FEATURES

- Self-powered, only two connections required
- +2.00 to +11.00Vdc input range
- 0.01V resolution; $\pm 0.05\%$ 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

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	$\pm 0.01V$ (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	6-8 in-lb (0.7 – 0.9N-m)

Environmental

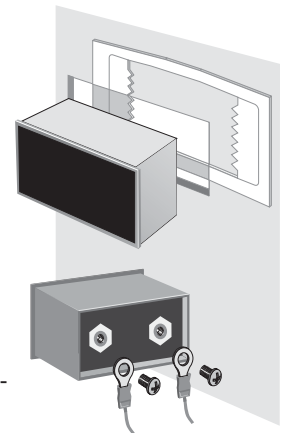
Operating Temperature	-25 to +60°C
Storage Temperature	-40 to +75°C
Humidity (Non-condensing)	0 to 95%

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

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)

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



MECHANICAL SPECIFICATIONS

Dimensions in inches (millimeters)

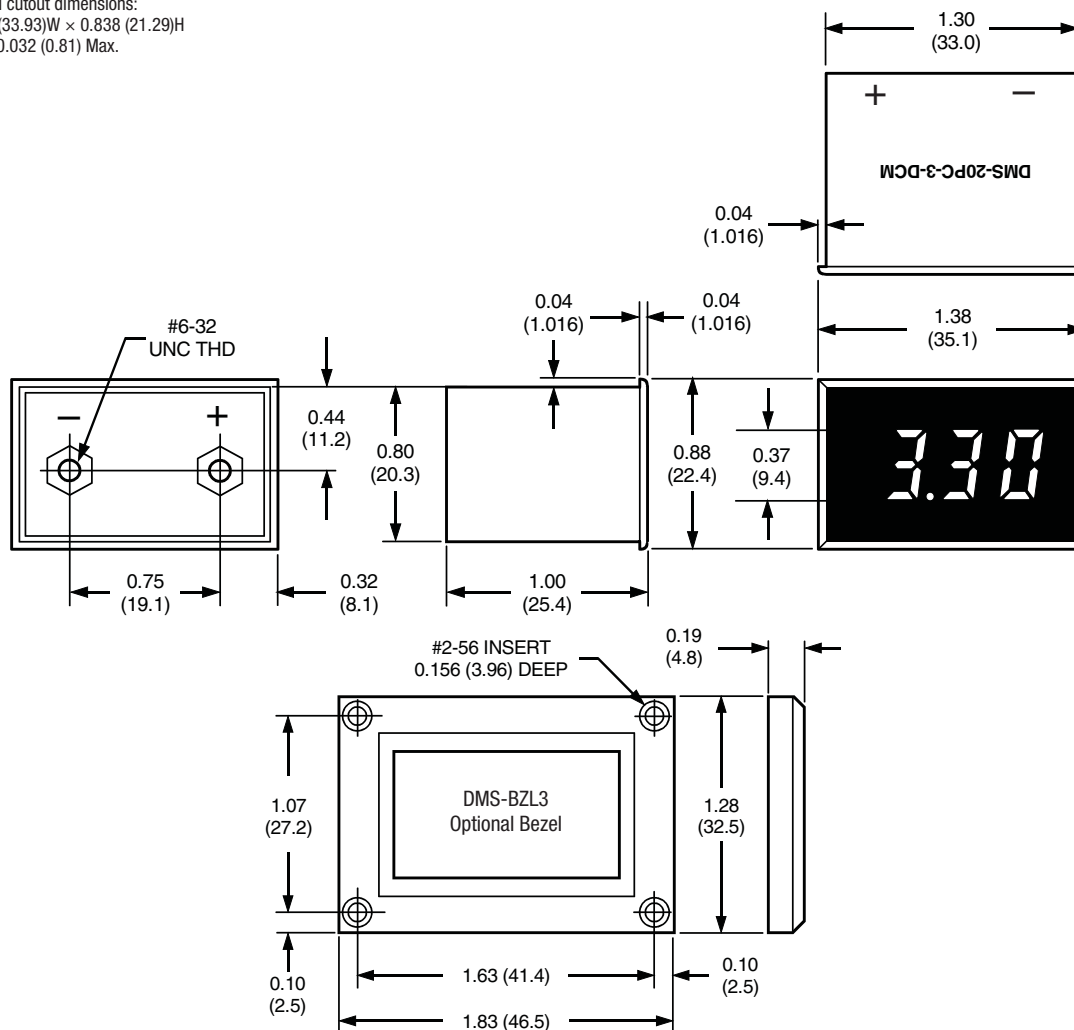
Tolerances: 2 PL Dec ± 0.02 (± 0.51)

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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