



## FEATURES

- Self-powered, only two connections required
- +4.50-19.99Vdc, +8.0-50.0Vdc, +30.0-199.9Vdc and +30-264Vdc models
- Ideal replacements for analog panel meters
- Ultra-low power consumption (8mA typ.)
- 0.37"/9.4mm high, red or blue, LED displays
- Subminiature 1.38" x 0.88" x 1.0" packages
- Super reliable, epoxy-encapsulated, construction

## Functional Specifications

### Input

#### Voltage Range: ①

DMS-20PC-0-DCM	+4.50 to +19.99Vdc
DMS-20PC-1-DCM	+8.0 to +50.0Vdc
DMS-20PC-2-DCM	+30 to +264Vdc
DMS-20PC-8-DCM	+30.0 to +199.9Vdc

#### Current Consumption:

DMS-20PC-0/1-DCM	13mA (max.)
DMS-20PC-2/8-DCM	7mA (max.)

### Performance

**Sampling Rate** 2.5 readings/second

#### Resolution:

DMS-20PC-0-DCM	±0.01V
DMS-20PC-1/8-DCM	±0.1V
DMS-20PC-2-DCM	±1V

#### Accuracy @ +25°C:

DMS-20PC-0-DCM	±0.01V (typ.), ±0.03V (max.)
DMS-20PC-1/8-DCM	±0.1V (typ.), ±0.2V (max.)
DMS-20PC-2-DCM	±1V (typ.), ±2V (max.)

### Mechanical

<b>Dimensions</b>	1.38" x 0.88" x 1.00"
<b>Display Type</b>	3 & 3½ digit, LED, 0.37"/9.4mm
<b>Weight</b>	1 ounce (28 grams)
<b>Case Material</b>	Polycarbonate
<b>6-32 screw torque</b>	6-8 in-lb (0.7 – 0.9N-m)

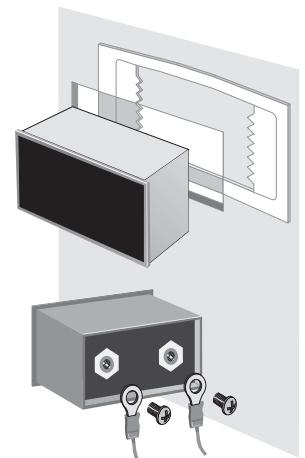
### Environmental

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

① Operation and accuracy at inputs above or below these ranges are not specified.

Murata Power Solutions' DMS-20PC-DCM Series of self-powered, positive-reading, dc voltage monitors are great replacements for older, hard-to-read, analog panel meters. Simply connect a positive dc voltage across the rear terminals and the meters are fully operational — no additional components or power supplies are required! The large, 0.37"/9.4mm, LED displays can be easily read from 15 feet away. Four versions are available: +4.50-19.99Vdc (0.01V resolution), +8.0-50.0Vdc (0.1V resolution), +30.0-199.9Vdc (0.1V resolution) and +30-264Vdc (1V resolution). Built-in reverse polarity protection assures simple, trouble-free installation.

All DMS-20PC-DCM's employ a high-resolution, 3½ digit A/D converter and precision metal-film resistors to achieve outstanding performance over an 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-DCM's are designed to fit the same panel cutout as Murata Power Solutions' popular DMS-20PC-X-LM ac-line voltage monitors.



Typical panel mount installation and suggested wiring (user supplied).

## Ordering Information

<b>DMS-20PC-0-DCM-C</b>	+4.50 to +19.99V dc red LED voltage monitor
<b>DMS-20PC-0-DCM-B-C</b>	+4.50 to +19.99V blue LED dc voltage monitor
<b>DMS-20PC-0-DCM-G-C</b>	+4.50 to +19.99V green LED dc voltage monitor
<b>DMS-20PC-1-DCM-C</b>	+8.0 to +50.0V red LED dc voltage monitor
<b>DMS-20PC-1-DCM-B-C</b>	+8.0 to +50.0V blue LED dc voltage monitor
<b>DMS-20PC-1-DCM-G-C</b>	+8.0 to +50.0V green LED dc voltage monitor
<b>DMS-20PC-2-DCM-C</b>	+30 to +264V dc voltage monitor
<b>DMS-20PC-8-DCM-C</b>	+30.0 to +199.9V dc voltage monitor
<b>DMS-20-CP</b>	Panel cutout punch
<b>DMS-BZL3-C</b>	Panel mount bezel assembly
<b>DMS-BZL4-C</b>	Panel mount bezel with sealing gasket

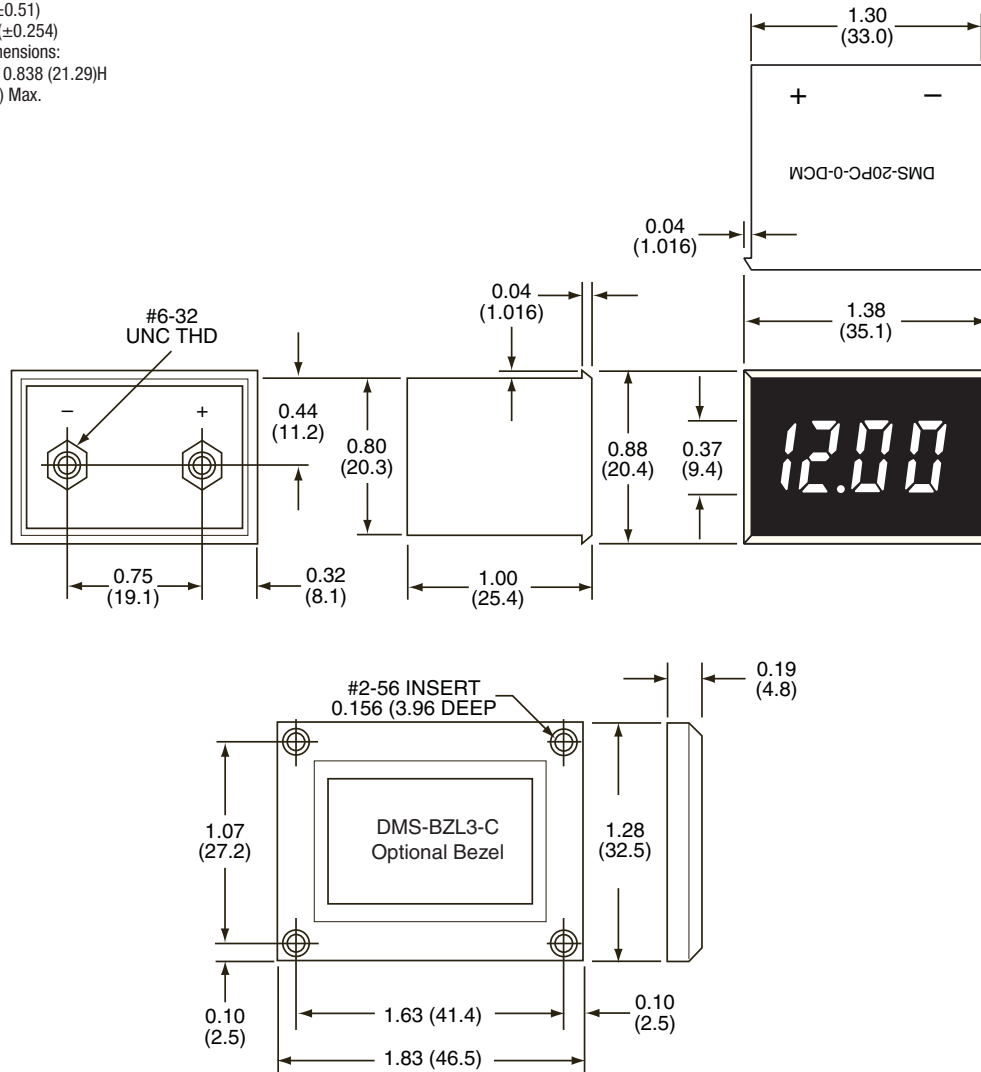
Brass screws (6-32 thread) and a panel-mount retaining clip are supplied with each meter

See [www.murata-ps.com/dpm-availability](http://www.murata-ps.com/dpm-availability) for model-specific availability.



## MECHANICAL SPECIFICATIONS

Dimensions in inches (millimeters)  
 Tolerances: 2 PL Dec  $\pm 0.02$  ( $\pm 0.51$ )  
 3 PL Dec  $\pm 0.010$  ( $\pm 0.254$ )  
 Recommended panel cutout dimensions:  
 1.336 (33.93)W  $\times$  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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