



DMS-20PC-3-DCM

+2 to +6Vdc, Self-Powered
LED Display, DC Voltage Monitor

Features

- Self-powered, only two connections required
- +2.00 to +6.00Vdc 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 +6.00Vdc
Current Consumption @ Vin = 2/3/6Vdc	55/80/50mA (max.)
Reverse Polarity Protection	6V (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

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

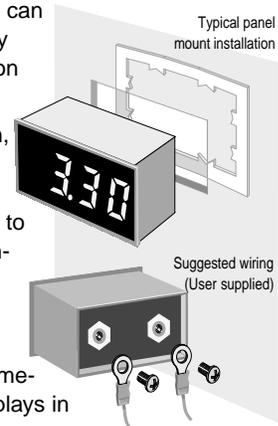
DMS-20PC-3-DCM	+2.00 to +6.00V dc voltage monitor
DMS-20-CP	Panel cutout punch
DMS-BZL3	Panel mount bezel assembly
DMS-BZL4	Panel mount bezel with sealing gasket

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

DATEL's new 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.



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 x 0.838 (21.29)H
Internal corner radii 0.032 (0.81) Max.

