



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 |

Environmental

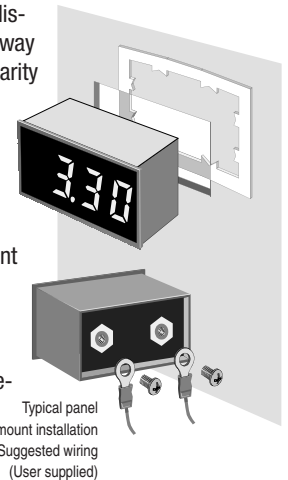
| | |
|---------------------------|--------------|
| Operating Temperature | -25 to +60°C |
| Storage Temperature | -40 to +75°C |
| Humidity (Non-condensing) | 0 to 95% |

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

DATEL's 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.



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.

