

Actual Size

DMS-20PC-4/5/6-DCM

Self-Powered, LED, Negative Input, DC Voltage Monitors

Features

- Self-powered, only two connections required
- -4.5 to -20Vdc, -18 to -50Vdc, and -30 to -264Vdc models
- Can be used with positive-reading DMS-20PC-DCM's
- Ultra-low power consumption (8mA typ.)
- 0.37"/9.4mm high, bright red, LED displays
- Subminiature 1.38" x 0.88" x 1.0" packages

Functional Specifications

Input

| | |
|------------------|--------------------|
| Voltage Range: ① | |
| DMS-20PC-4-DCM | -4.50 to -19.99Vdc |
| DMS-20PC-5-DCM | -18.0 to -50.0Vdc |
| DMS-20PC-6-DCM | -30 to -264Vdc |

Current Consumption:

| | |
|------------------|-------------|
| DMS-20PC-4/5-DCM | 13mA (max.) |
| DMS-20PC-6-DCM | 7mA (max.) |

Performance

Sampling Rate 2.5 readings/second

Resolution:

| | |
|----------------|--------|
| DMS-20PC-4-DCM | ±0.01V |
| DMS-20PC-5-DCM | ±0.1V |
| DMS-20PC-6-DCM | ±1V |

Accuracy @ +25°C:

| | |
|----------------|------------------------------|
| DMS-20PC-4-DCM | ±0.01V (typ.), ±0.03V (max.) |
| DMS-20PC-5-DCM | ±0.1V (typ.), ±0.2V (max.) |
| DMS-20PC-6-DCM | ±1V (typ.), ±2V (max.) |

Mechanical

| | |
|---------------|-------------------------------------|
| Dimensions | 1.38" x 0.88" x 1.00" |
| Display Type | 3 & 3/4 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 these ranges are not specified.

Ordering Information

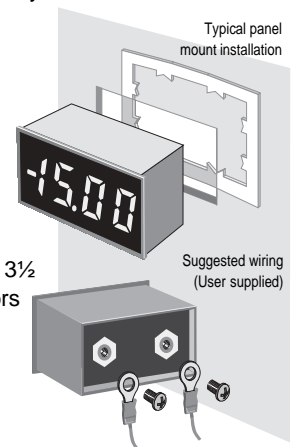
| | |
|-----------------------|---------------------------------------|
| DMS-20PC-4-DCM | -4.50 to -19.99V dc voltage monitor |
| DMS-20PC-5-DCM | -18.0 to -50.0V dc voltage monitor |
| DMS-20PC-6-DCM | -30 to -264V dc voltage monitor |
| DMS-20-CP | Panel cutout punch |
| DMS-BZL3 | Panel mount bezel 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

DATTEL's DMS-20PC-DCM Series of self-powered, negative-reading, dc voltage monitors are great replacements for older, hard-to-read, analog meters. Simply connect a negative voltage across the rear terminals and the meters are fully operational! Negative-input DCM's can be easily combined with positive-reading DMS-20PC-DCM's for monitoring dual-polarity power supplies.

Three versions are available: one for -4.50 to -19.99Vdc (0.01V resolution), one for -18.0 to -50.0Vdc (0.1V resolution), and one for -30 to -264Vdc (1V resolution). Their large, 0.37"/9.4mm, bright red LED displays can be easily read from 15 feet away. Built-in reverse polarity protection assures simple, trouble-free installation.

All DMS-20PC-DCM's employ a high-resolution, 3 1/2 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.



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.

