

DMS-20PC-0/1/2/8-DCM

Self-Powered, Positive Input LED Display, DC Voltage Monitors



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

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

Dimensions1.38" x 0.88" x 1.00"Display Type3 & 3½ digit, LED, 0.37"/9.4mmWeight1 ounce (28 grams)Case MaterialPolycarbonate

Environmental

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

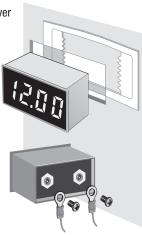




DATEL's DMS-20PC-DCM Series of self-powered, positive-reading, dc voltage monitors are great replacements for older, hard-to-read, analog panel meters. Simply connect a posi-

tive 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, epoxyencapsulated, polycarbonate case provides excellent protection against moisture, shock and vibration. The DMS-20PC-DCM's are designed to fit the same panel cutout as DATEL's popular DMS-20PC-X-LM ac-line voltage monitors



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

Ordering Information

DMS-20PC-0-DCM-C +4.50 to +19.99V dc red LED voltage monitor DMS-20PC-0-DCM-B-C +4.50 to +19.99V blue LED dc voltage monitor DMS-20PC-0-DCM-G-C +4.50 to +19.99V green LED dc voltage monitor DMS-20PC-1-DCM-C +8.0 to +50.0V red LED dc voltage monitor DMS-20PC-1-DCM-B-C +8.0 to +50.0V blue LED dc voltage monitor DMS-20PC-1-DCM-G-C +8.0 to +50.0V green LED dc voltage monitor DMS-20PC-2-DCM-C +30 to +264V dc voltage monitor DMS-20PC-8-DCM-C +30.0 to +199.9V dc voltage monitor DMS-20-CP 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





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MECHANICAL SPECIFICATIONS

Tolerances:

Dimensions in inches (millimeters) 2 PL Dec ±0.02 (±0.51) 1.30 (33.0) 3 PL Dec ±0.010 (±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. DWS-50PC-0-DCM 0.04 (1.016) 0.04 1.38 (1.016)#6-32 (35.1)UNC THD 0.44 (11.2)0.80 0.37 0.88 (20.3)(20.4)(9.4)0.75 1.00 (25.4)0.19 #2-56 INSERT (4.8)0.156 (3.96 DEEP 1.07 (27.2) DMS-BZL3-C 1.28 Optional Bezel (32.5) \bigoplus 0.10 0.10 1.63 (41.4) (2.5)(2.5)1.83 (46.5)

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