

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

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





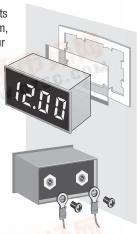
- Self-powered, only two connections required
- +4.50-19.99Vdc, +8.0-50.0Vdc, +30.0-199.9Vdc and +30-264Vdc models
- Ideal replacements for analog panel meters
- Ultra-low power consumption (8mA tvp.)
- 0.37"/9.4mm high, red or blue, LED displays
- Subminiature 1.38" x 0.88" x 1.0" packages
- Super reliable,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

12.00

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 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, 31/2 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, 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).

Functional Specifications

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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 $\pm 1V$

Accuracy @ +25°C: DMS-20PC-0-DCM

 $\pm 0.01V$ (typ.), $\pm 0.03V$ (max.) DMS-20PC-1/8-DCM $\pm 0.1 \text{V(typ.)}, \pm 0.2 \text{V (max.)}$ DMS-20PC-2-DCM ±1V(typ.), ±2V (max.)

Mechanical **Dimensions Display Type**

1.38" x 0.88" x 1.00" 3 & 31/2 digit, LED, 0.37"/9.4mm 1 ounce (28 grams)

Weight **Case Material** Polycarbonate

Environmental

Operating Temperature $-25 \text{ to } +60^{\circ}\text{C}$ **Storage Temperature** -40 to +75°C **Humidity** (Non-condensing) 0 to 95%

Ordering Information

DMS-20PC-0-DCM-C DMS-20PC-0-DCM-B-C DMS-20PC-0-DCM-G-C DMS-20PC-1-DCM-C DMS-20PC-1-DCM-B-C DMS-20PC-1-DCM-G-C DMS-20PC-2-DCM-C DMS-20PC-8-DCM-C

DMS-20-CP DMS-BZL3-C DMS-BZL4-C +4.50 to +19.99V dc red LED voltage monitor

+4.50 to +19.99V blue LED dc voltage monitor +4.50 to +19.99V green LED dc voltage monitor

+8.0 to +50.0V red LED dc voltage monitor

+8.0 to +50.0V blue LED dc voltage monitor

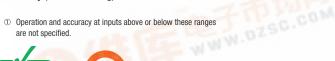
+8.0 to +50.0V green LED dc voltage monitor +30 to +264V dc voltage monitor

+30.0 to +199.9V dc voltage monitor Panel cutout punch

Panel mount bezel assembly

Panel mount bezel with sealing gasket

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







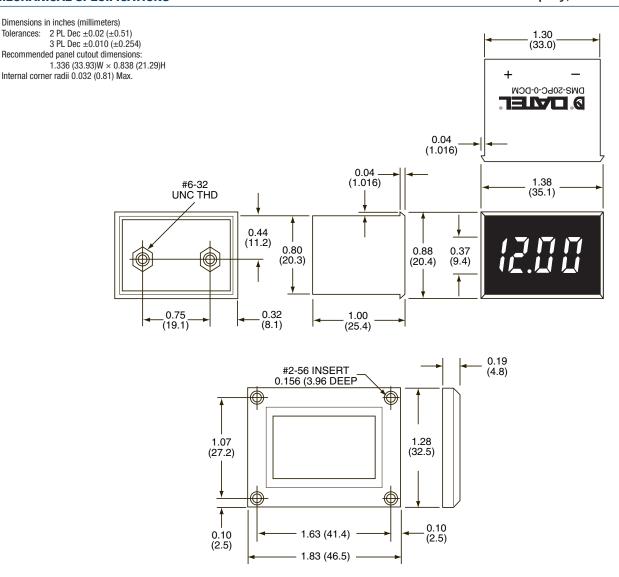




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Self-Powered, Positive Input LED Display, DC Voltage Monitors

MECHANICAL SPECIFICATIONS





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