

DMS-20LCD-0/1 Series

Self-Powered, +12V and +24V, LCD Display 2-Wire DC Voltage Monitors





FEATURES

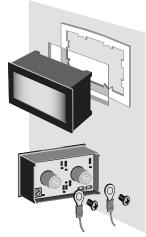
- Self-powered, only two connections required
- +6.50-18.00Vdc (0.01V resolution) or +8.0-50.0Vdc (0.1V resolution) input ranges
- Ideal for battery-powered systems
- Reverse polarity protected
- Built-in "VDC" annunciator
- Large (0.37"/9.4mm) LCD displays
- Subminiature 1.38" x 0.88" x 0.66" packages
- Rugged, ABS package

tors set new standards for quality, performance, size and cost. Simply apply power to the two rear terminals and the unit is operational. No additional components are required! The large, 0.37"/9.4mm, LCD display, with built-in

DATEL's new DMS-20LCD-0/1-DCM, self-contained, self-powered, dc voltage moni-

"VDC" annunciator, can be easily read from 10 feet. Two models are available: one for 12Vdc nominal operation (+6.50-18.00V range, 0.01V resolution). the other for 24Vdc nominal operation (+8.0-50.0V range, 0.1V resolution). Reverse polarity protection is standard on both models.

The DMS-20LCD-DCM utilizes a precision analog-to-digital converter and ultra-stable passive components to achieve excellent performance over the operating temperature range of 0 to $+60^{\circ}$ C. A rugged, ABS plastic package provides excellent protection against shock and vibration. DMS-20LCD-DCM's are without a doubt the most cost-effective, LCD-display, digital voltmeters available anywhere, at any price..



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

Functional Specifications

Voltage Range: ① DMS-20LCD-0-DCM

+6.50 to +18.00Vdc DMS-20LCD-1-DCM +8.0 to +50.0Vdc

Max. Current Consumption:

2mA @+12V. 7mA @ +18V DMS-20LCD-0-DCM DMS-20LCD-1-DCM 2mA @ +24V, 6mA @ +50V

Performance

Sampling Rate 2.5 readings/second

Accuracy @ +25°C:

DMS-20LCD-0-DCM $\pm 0.01V$ (typ.), $\pm 0.03V$ (max.) DMS-20LCD-1-DCM ±0.1V (typ.), ±0.2V (max.)

Temperature Drift (0 to +60°C):

DMS-20LCD-0-DCM ±0.4 counts/°C (max.) DMS-20LCD-1-DCM ±0.04 counts/°C (max.)

Mechanical

Display Type:

DMS-20LCD-0-DCM 31/2 digit LCD, 0.37"/9.4mm high DMS-20LCD-1-DCM 3 digit LCD, 0.37"/9.4mm high 0.5 ounce (14 grams)

Weight

Case Material **Environmental** ②

Operating Temperature $0 \text{ to } +60^{\circ}\text{C}$ Storage Temperature -20 to +75°C **Humidity (Non-condensing)** 0 to 85%

- ① Operation and accuracy at voltages above or below these ranges
- ② Meters are not sealed; Do not expose to moisture or other contaminants.

Ordering Information

DMS-20LCD-0-DCM-C +6.50 to 18.00V dc voltage monitor DMS-20LCD-1-DCM-C +8.0 to 50.0V dc voltage monitor

DMS-20-CP Panel cutout punch DMS-BZL3-C Panel mount bezel

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



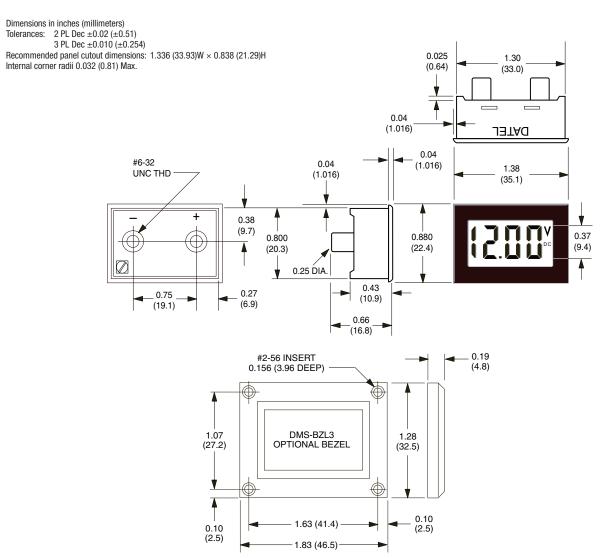






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