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Actual Size

DMS-20LCD-0/1-DCM

Self-Powered, LCD Display Digital, DC Voltage Monitors

Features

- Self-powered, only two connections required
- +6.50-18.00Vdc (0.01V resolution) or +8.0-40.0Vdc (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

+6.50 to +18.00Vdc

3mA (max. at VIN=+12V)

2.5 readings/second

2.5mA (max. at VIN=+24V)

±0.01V (typ.), ±0.03V (max.)

±0.1V (typ.), ±0.2V (max.)

±0.4 counts/°C (max.)

±0.04 counts/°C (max.)

0.5 ounces (14 grams)

ABS

0 to +60°C

0 to 95%

-20 to +75°C

31/2 digit LCD, 0.37"/9.4mm high

3 digit LCD, 0.37"/9.4mm high

+8.0 to +40.0Vdc

• Rugged, ABS package

Functional Specifications

Input

Voltage Range: ① DMS-20LCD-0-DCM DMS-20LCD-1-DCM Current Consumption: DMS-20LCD-0-DCM DMS-20LCD-1-DCM

Performance

Sampling Rate Accuracy @ +25°C: DMS-20LCD-0-DCM DMS-20LCD-1-DCM Temperature Drift (0 to +60°C): DMS-20LCD-0-DCM DMS-20LCD-1-DCM

Mechanical

Display Type: DMS-20LCD-0-DCM DMS-20LCD-1-DCM Weight Case Material

Environmental

Operating Temperature Storage Temperature Humidity (Non-condensing)

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

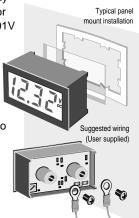
Ordering Information

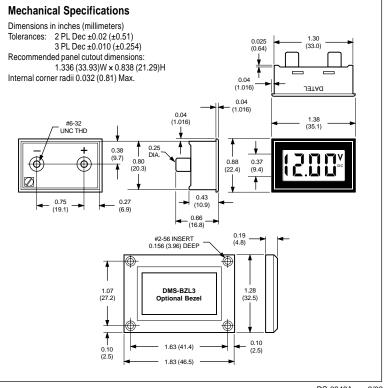
DMS-20LCD-0-DCM	+6.50-18.00V dc voltage monitor
DMS-20LCD-1-DCM	+8.0-40.0V dc voltage monitor
DMS-20-CP	Panel cutout punch
DMS-BZL3	Panel mount bezel
DMS-BZL4	Panel mount bezel with sealing gasket
Brass screws (6-32 thread) and a panel-mount retaining clip are supplied with each meter	

DATEL's new DMS-20LCD-DCM, self-contained, self-powered, dc voltage monitors 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 "Voc" 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 (+8.0-40.0V 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°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.





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