



DMS-20LCD-0/1-DCM

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

Order online at www.datel.com

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 "V_{dc}" annunciator
- Large (0.37"/9.4mm) LCD displays
- Subminiature 1.38" x 0.88" x 0.66" packages
- Rugged, ABS package

Functional Specifications

Input

Voltage Range: ①

DMS-20LCD-0-DCM	+6.50 to +18.00Vdc
DMS-20LCD-1-DCM	+8.0 to +50.0Vdc

Max. Current Consumption:

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

Performance

Sampling Rate 2.5 readings/second

Accuracy @ +25°C:

DMS-20LCD-0-DCM	±0.01V (typ.), ±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	3½ digit LCD, 0.37"/9.4mm high
DMS-20LCD-1-DCM	3 digit LCD, 0.37"/9.4mm high

Weight

	0.5 ounce (14 grams)
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Case Material

	ABS
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Environmental

Operating Temperature 0 to +60°C

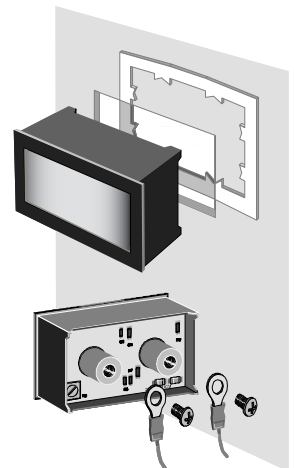
Storage Temperature -20 to +75°C

Humidity (Non-condensing) 0 to 85%

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

DATEL's new DMS-20LCD-0/1-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 "V_{dc}" 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°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).

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.

