# DMS-20LCD-0/1 Series

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

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

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

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

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-

LCD-display, digital voltmeters available anywhere, at

DCM's are without a doubt the most cost-effective,

range, 0.1V resolution). Reverse polarity protection is

"VDC" annunciator, can be easily read from 10 feet.



### **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

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- 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

#### **Functional Specifications**

#### Input

Voltage Range: ① DMS-20LCD-0-DCM DMS-20LCD-1-DCM Max. 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)

+8.0 to +50.0Vdc 2mA @+12V, 7mA @ +18V 2mA @ +24V, 6mA @ +50V

## 2.5 readings/second

+6.50 to +18.00Vdc

 $\pm 0.01V$  (typ.),  $\pm 0.03V$  (max.)  $\pm 0.1V$  (typ.),  $\pm 0.2V$  (max.)

±0.4 counts/°C (max.) ±0.04 counts/°C (max.)

3½ digit LCD, 0.37"/9.4mm high 3 digit LCD, 0.37"/9.4mm high 0.5 ounce (14 grams) ABS 0 to +60°C

-20 to +75°C 0 to 85%

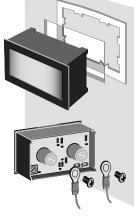
 Operation and accuracy at voltages above or below these ranges are not specified.

② Meters are not sealed; Do not expose to moisture or other contaminants.





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

### **Ordering Information**

standard on both models.

DMS-20LCD-0-DCM-C DMS-20LCD-1-DCM-C DMS-20-CP DMS-BZL3-C DMS-BZL4-C

any price..

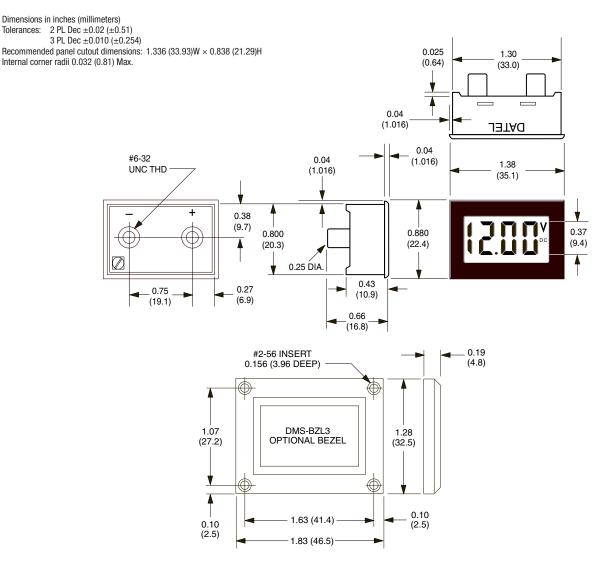
+6.50 to 18.00V dc voltage monitor +8.0 to 50.0V dc voltage monitor Panel cutout punch Panel mount bezel Panel mount bezel with sealing gasket

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



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