



# DMS-20LCD-2/3-DCM

# Self-Powered, +50V and +150V, LCD Display, 2-Wire DC Voltage Monitors

# Order online at www.datel.com

#### **Features**

- · Self-powered, 2-wire operation
- +18.0 to +90.0Vdc or +50.0 to +150.0Vdc ranges
- · Ideal for 42V automotive systems and 120V chargers
- Reverse polarity protected: 0.1V resolution
- Built-in "Vpc" annunciator
- Large (0.37"/9.4mm) LCD displays
- Subminiature 1.38" x 0.88" x 0.66" packages
- . Rugged, ABS plastic package; Low cost

#### **Functional Specifications**

#### Input

Voltage Range: 1 DMS-20LCD-2-DCM

+18 0 to +90 0Vdc DMS-20LCD-3-DCM +50.0 to +150.0Vdc

Max. Current Consumption:

DMS-20LCD-2-DCM 2mA @+50V. 3mA @ +90V DMS-20LCD-3-DCM 1.5mA @ +100V, 2mA @ +150V

## Performance

2.5 readings/second Sampling Rate

Accuracy @ +25°C:

DMS-20LCD-2-DCM ±0.1V (typ.), ±0.3V (max.) DMS-20LCD-3-DCM ±0.2V (typ.), ±0.4V (max.)

Temperature Drift (0 to +60°C):

±0.3 counts/°C (max.) DMS-20LCD-2-DCM DMS-20LCD-3-DCM ±0.4 counts/°C (max.)

## Mechanical

Display Type:

DMS-20LCD-2-DCM 3 digit LCD, 0.37"/9.4mm high DMS-20LCD-3-DCM 31/2 digit LCD, 0.37"/9.4mm high

0.5 ounce (14 grams) Weight

Case Material

# **Environmental**

**Operating Temperature** 0 to +60°C -20 to +75°C Storage Temperature 0 to 85% Humidity (Non-condensing)

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

#### **Ordering Information**

DMS-20LCD-2-DCM +18.0 to 90.0V dc voltage monitor +50.0 to +150.0V dc voltage monitor DMS-20LCD-3-DCM

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

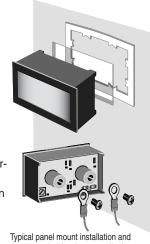
DMS-B7I 4 Panel mount bezel with sealing gasket

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

DATEL's DMS-20LCD-2/3-DCM, self-powered, +90V and +150V voltage monitors set new standards for quality, performance, size and cost. Simply apply dc power to the two rear terminals and the unit is fully operational---no additional components or connections are required! Their large, 0.37"/9.4mm,

LCD displays feature built-in "VDC" annunciators and can be easily read from 10 feet. Two models are available: one for +42Vdc nominal operation (+18.0 to +90.0V range, '-2-DCM'), the other for +120Vdc nominal operation (+50.0 to +150.0V range, '-3-DCM'). Reverse polarity protection and 0.1V resolution are standard on both models.

Like their +12V ('-0-DCM') and +24V ('-1-DCM') counterparts, DMS-20LCD-2/3-DCM meters utilize a precision analog-to-digital converter and ultra-stable passive components to achieve excellent performance over the wide 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 the most accurate, LCD-display, dc-voltage monitors available at any price.



suggested wiring (user supplied).

