

DMS-20LCD-2/3 Series

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



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 "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

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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	
Sampling Rate	2.5 readings/second
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):
DMS-20LCD-2-DCM	±0.3 counts/°C (max.)
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
Weight	0.5 ounce (14 grams)
Case Material	ABS
Environmental 2	
Operating Temperature	0 to +60°C
Storage Temperature	-20 to +75°C
Humidity (Non-condensing)	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.





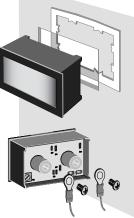
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new standards for quality, performance, size and cost. Simply apply dc power to the two rear terminals and the unit is fully operational---no additional components or connections are required! Their large, 0.37"/9.4mm, LCD displays feature built-in "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

DATEL's DMS-20LCD-2/3-DCM, self-powered, +90V and +150V voltage monitors set

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.

protection and 0.1V resolution are standard on both



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

Ordering Information

DMS-201	_CD-2-DCM
DMS-201	.CD-3-DCM
DMS-20-	-CP
DMS-BZ	L3
DMS-B7	4

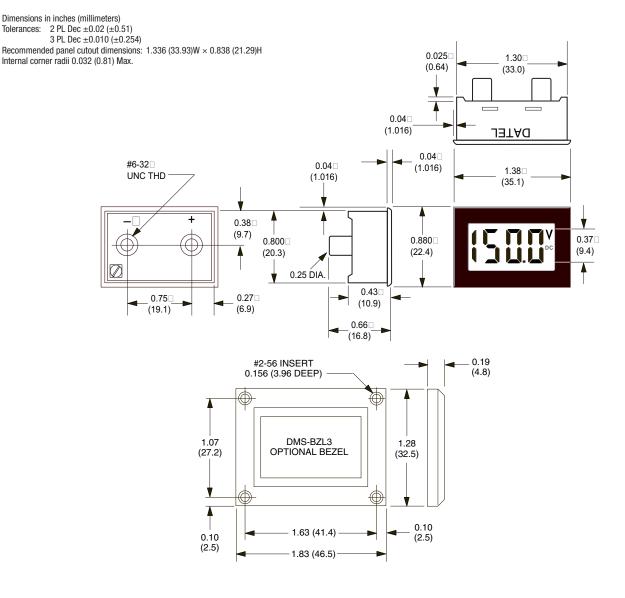
+18.00 to 90.0V dc voltage monitor +50.0 to 150.0V dc voltage monitor Panel cutout punch Panel mount bezel Panel mount bezel with sealing gasket

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



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muRata Ps Murata Power Solutions

Murata Power Solutions, Inc.

11 Cabot Boulevard, Mansfield, MA 02048-1151 U.S.A.

Tel: (508) 339-3000 (800) 233-2765 Fax: (508) 339-6356

www.murata-ps.com email:sales@murata-ps.com ISO 9001 and 14001 REGISTERED 11/24/08

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USA:	Mansfield (MA), Tel: (508) 339-3000, email: sales@murata-ps.com
Canada:	Toronto, Tel: (866) 740-1232, email: toronto@murata-ps.com
UK:	Milton Keynes, Tel: +44 (0)1908 615232, email: mk@murata-ps.com
France:	Montigny Le Bretonneux, Tel: +33 (0)1 34 60 01 01, email: france@murata-ps.com
Germany:	München, Tel: +49 (0)89-544334-0, email: munich@murata-ps.com
Japan:	Tokyo, Tel: 3-3779-1031, email: sales_tokyo@murata-ps.com Osaka, Tel: 6-6354-2025, email: sales_osaka@murata-ps.com
China:	Shanghai, Tel: +86 215 027 3678, email: shanghai@murata-ps.com Guangzhou, Tel: +86 208 221 8066, email: guangzhou@murata-ps.com
Singapore:	Parkway Centre, Tel: +65 6348 9096, email: singapore@murata-ps.com



Technical enquiries email: sales@murata-ps.com, tel: +1 508 339 3000