

DMS-20PC-0/1/2/8-DCM

Self-Powered, Positive Input LED Display, DC Voltage Monitors





FEATURES

- Self-powered, only two connections required
- +4.50-19.99Vdc, +8.0-50.0Vdc, +30.0-199.9Vdc and +30-264Vdc models
- Ideal replacements for analog panel meters
- Ultra-low power consumption (8mA tvp.)
- 0.37"/9.4mm high, red or blue, LED displays
- Subminiature 1.38" x 0.88" x 1.0" packages
- Super reliable, epoxy-encapsulated, construction

Functional Specifications

Input

Voltage Range: ①

DMS-20PC-0-DCM +4.50 to +19.99Vdc DMS-20PC-1-DCM +8.0 to +50.0Vdc DMS-20PC-2-DCM +30 to +264Vdc DMS-20PC-8-DCM +30.0 to +199.9Vdc

Current Consumption:

DMS-20PC-0/1-DCM 13mA (max.) DMS-20PC-2/8-DCM 7mA (max.)

Performance

Sampling Rate 2.5 readings/second Resolution:

DMS-20PC-0-DCM ±0.01V DMS-20PC-1/8-DCM ±0.1V DMS-20PC-2-DCM $\pm 1V$

Accuracy @ +25°C:

DMS-20PC-0-DCM $\pm 0.01V$ (typ.), $\pm 0.03V$ (max.) DMS-20PC-1/8-DCM $\pm 0.1 \text{V(typ.)}, \pm 0.2 \text{V (max.)}$ DMS-20PC-2-DCM ±1V(typ.), ±2V (max.)

Mechanical **Dimensions**

1.38" x 0.88" x 1.00" 3 & 31/2 digit, LED, 0.37"/9.4mm **Display Type** 1 ounce (28 grams) Weight

Case Material Polycarbonate

Environmental

Operating Temperature $-25 \text{ to } +60^{\circ}\text{C}$ **Storage Temperature** -40 to +75°C **Humidity** (Non-condensing) 0 to 95%

WWW.DZSC.COM ① Operation and accuracy at inputs above or below these ranges are not specified.

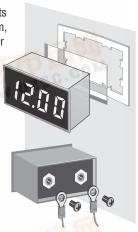




DATEL's DMS-20PC-DCM Series of self-powered, positive-reading, dc voltage monitors are great replacements for older, hard-to-read, analog panel meters. Simply connect

a positive dc voltage across the rear terminals and the meters are fully operational — no additional components or power supplies are required! The large, 0.37"/9.4mm. LED displays can be easily read from 15 feet away. Four versions are available: +4.50-19.99Vdc (0.01V resolution), +8.0-50.0Vdc (0.1V resolution), +30.0-199.9Vdc (0.1V resolution) and +30-264Vdc (1V resolution). Built-in reverse polarity protection assures simple, trouble-free installation.

All DMS-20PC-DCM's employ a high-resolution, 31/2 digit A/D converter and precision metal-film resistors to achieve outstanding performance over an operating temperature range of -25 to +60°C. A rugged, epoxyencapsulated, polycarbonate case provides excellent protection against moisture, shock and vibration. The DMS-20PC-DCM's are designed to fit the same panel cutout as DATEL's popular DMS-20PC-X-LM ac-line voltage monitors



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

Ordering Information

DMS-20PC-0-DCM-C +4.50 to +19.99V dc red LED voltage monitor +4.50 to +19.99V blue LED dc voltage monitor DMS-20PC-0-DCM-B-C DMS-20PC-0-DCM-G-C +4.50 to +19.99V green LED dc voltage monitor DMS-20PC-1-DCM-C +8.0 to +50.0V red LED dc voltage monitor DMS-20PC-1-DCM-B-C +8.0 to +50.0V blue LED dc voltage monitor +8.0 to +50.0V green LED dc voltage monitor DMS-20PC-1-DCM-G-C DMS-20PC-2-DCM-C +30 to +264V dc voltage monitor DMS-20PC-8-DCM-C +30.0 to +199.9V dc voltage monitor DMS-20-CP Panel cutout punch DMS-BZL3-C Panel mount bezel assembly DMS-BZL4-C Panel mount bezel with sealing gasket

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



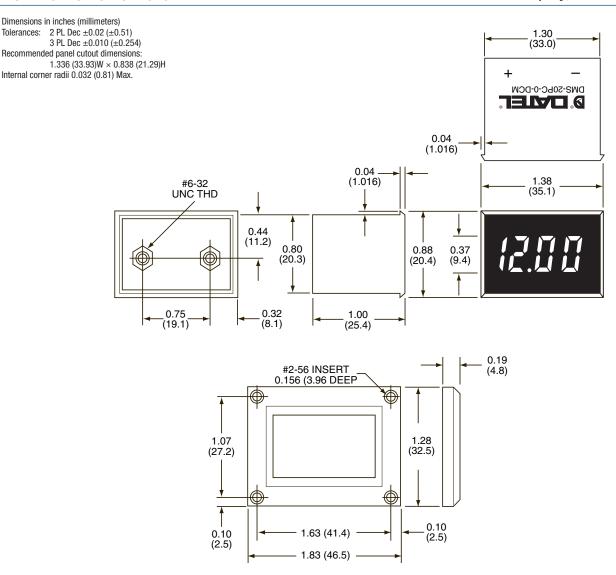


DMS-20PC-0/1/2/8-DCM

Self-Powered, Positive Input LED Display, DC Voltage Monitors

MECHANICAL SPECIFICATIONS

Tolerances:





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

Murata Power Solutions, Inc. makes no representation that the use of its products in the circuits described herein, or the use of other technical information contained herein, will not infringe upon existing or future patent rights. The descriptions contained herein do not imply the granting of licenses to make, use, or sell equipment constructed in accordance therewith. Specifications are subject to change without notice.

© 2008 Murata Power Solutions, Inc. 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 Tokyo, Tel: 3-3779-1031, email: sales_tokyo@murata-ps.com Japan: 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

Parkway Centre, Tel: +65 6348 9096, email: singapore@murata-ps.com

