



FEATURES

- Self-powered, only two connections required
- -4.5 to -20Vdc, -18 to -50Vdc, and -30 to -264Vdc models
- Can be used with positive-reading DMS-20PC-DCM's
- Ultra-low power consumption (8mA typ.)
- 0.37"/9.4mm high, bright red, LED displays
- Subminiature 1.38" x 0.88" x 1.0" packages

Functional Specifications

Input

Voltage Range: ①

| | |
|----------------|--------------------|
| DMS-20PC-4-DCM | -4.50 to -19.99Vdc |
| DMS-20PC-5-DCM | -18.0 to -50.0Vdc |
| DMS-20PC-6-DCM | -30 to -264Vdc |

Current Consumption:

| | |
|------------------|-------------|
| DMS-20PC-4/5-DCM | 13mA (max.) |
| DMS-20PC-6-DCM | 7mA (max.) |

Performance

Sampling Rate 2.5 readings/second

Resolution:

| | |
|----------------|--------|
| DMS-20PC-4-DCM | ±0.01V |
| DMS-20PC-5-DCM | ±0.1V |
| DMS-20PC-6-DCM | ±1V |

Accuracy @ +25°C:

| | |
|----------------|------------------------------|
| DMS-20PC-4-DCM | ±0.01V (typ.), ±0.03V (max.) |
| DMS-20PC-5-DCM | ±0.1V (typ.), ±0.2V (max.) |
| DMS-20PC-6-DCM | ±1V (typ.), ±2V (max.) |

Mechanical

Dimensions 1.38" x 0.88" x 1.00"

Display Type 3 & 3½ digit, red LED, 0.37"/9.4mm

Weight 1 ounce (28 grams)

Case Material Polycarbonate

6-32 screw torque 6-8 in-lb (0.7 – 0.9N-m)

Environmental

Operating Temperature -25 to +60°C

Storage Temperature -40 to +75°C

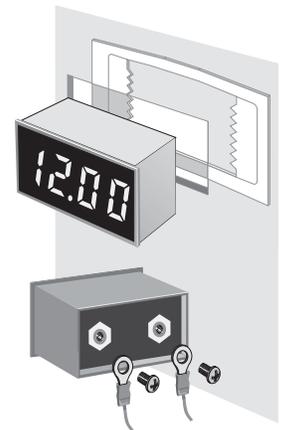
Humidity (Non-condensing) 0 to 95%

① Operation and accuracy at inputs above or below this range are not specified.

DATEL's DMS-20PC-DCM Series of self-powered, negative-reading, dc voltage monitors are great replacements for older, hard-to-read, analog meters. Simply connect a negative voltage across the rear terminals and the meters are fully operational! Negative-input DCM's can be easily combined with positive-reading DMS-20PC-DCM's for monitoring dual-polarity power supplies.

Three versions are available: one for -4.50 to -19.99Vdc (0.01V resolution), one for -18.0 to -50.0Vdc (0.1V resolution), and one for -30 to -264Vdc (1V resolution). Their large, 0.37"/9.4mm, bright red LED displays can be easily read from 15 feet away. Built-in reverse polarity protection assures simple, trouble-free installation.

All DMS-20PC-DCM's employ a high-resolution, 3½ 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, epoxy-encapsulated, polycarbonate case provides excellent protection against moisture, shock and vibration.



Typical panel mount installation and suggested wiring (user supplied)

Ordering Information

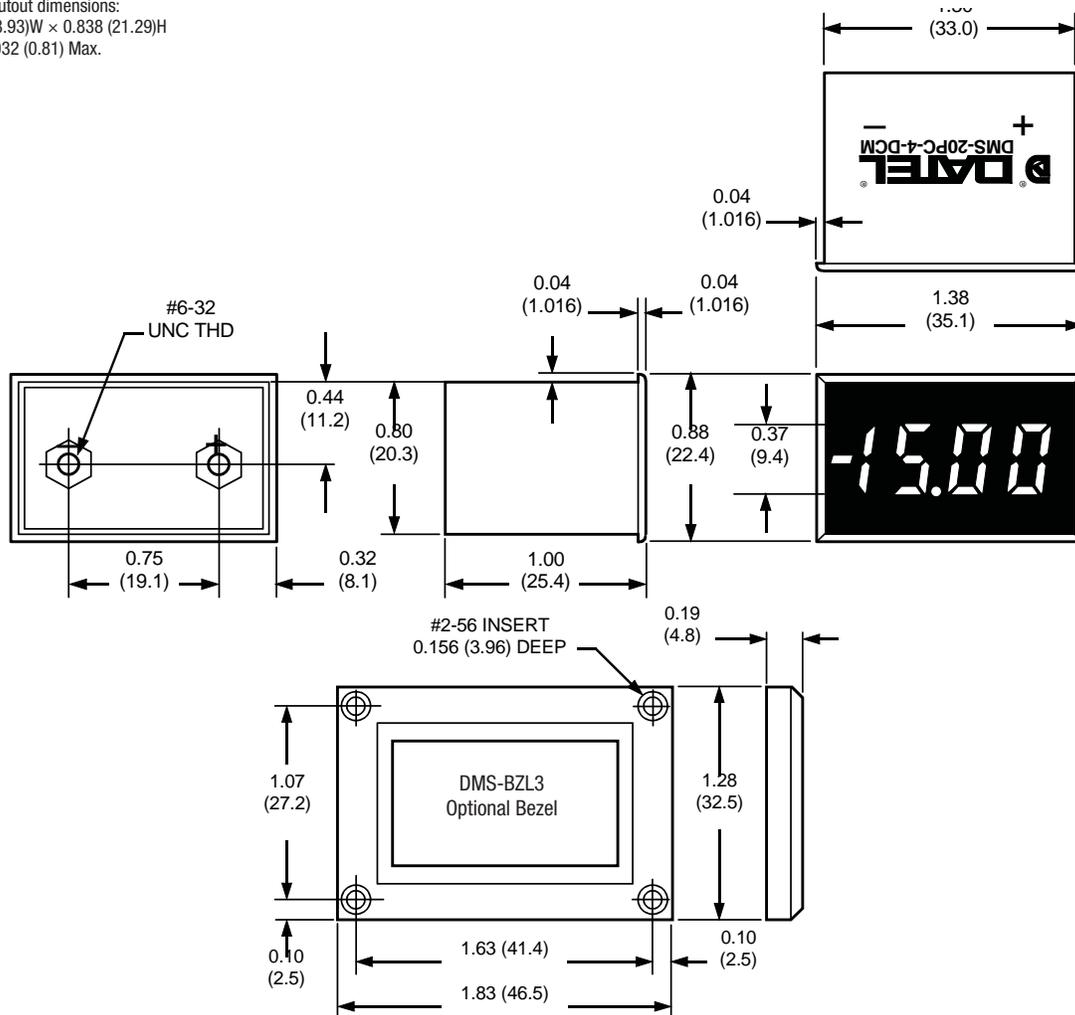
| | |
|-----------------------|---------------------------------------|
| DMS-20PC-4-DCM | -4.50 to -19.99V dc voltage monitor |
| DMS-20PC-5-DCM | -18.0 to -50.0V dc voltage monitor |
| DMS-20PC-6-DCM | -30 to -264V dc voltage monitor |
| DMS-20-CP | Panel cutout punch |
| DMS-BZL3 | Panel mount bezel assembly |
| DMS-BZL4 | Panel mount bezel with sealing gasket |

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



For full details go to
www.murata-ps.com/rohs

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 \times 0.838 (21.29)H
 Internal corner radii 0.032 (0.81) Max.



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