

DMS-20PC-4/5/6-DCM

Self-Powered, LED, Negative Input, DC Voltage Monitors

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 & 3/4 digit, red LED, 0.37"/9.4mm
Weight	1 ounce (28 grams)
Case Material	Polycarbonate

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 these ranges are not specified.

Ordering Information

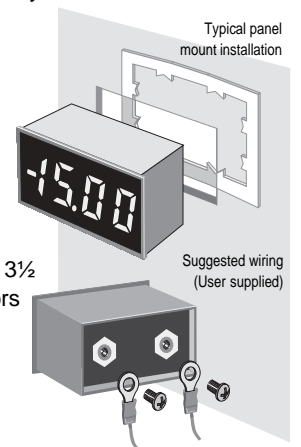
DMS-20PC-4-DCM	-4.50 to -19.99V dc voltage monitor
DMS-20PC-5-DCM	-18.0 to -50.0V dc voltage monitor
DMS-20PC-6-DCM	-30 to -264V dc voltage monitor
DMS-20-CP	Panel cutout punch
DMS-BZL3	Panel mount bezel assembly
DMS-BZL4	Panel mount bezel with sealing gasket

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

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, 3 1/2 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, epoxy-encapsulated, polycarbonate case provides excellent protection against moisture, shock and vibration.



Mechanical Specifications

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

