





Actual Size



## DMS-20PC-7-DCM

– 36 to –75Vdc, Self-Powered
 LED Display, DC Voltage Monitor

## **Features**

- Great for -48Vdc telecom power monitoring
- Self-powered 2-wire operation
- -36 to -75V operating input range
- Ultra-low power consumption, 8mA (typ.) at -48V
- -200V input transient protection
- Reverse polarity protected to +100V
- 0.37"/9.4mm high, bright red, LED display
- Subminiature 1.38" x 0.88" x 1.0" package
- Super reliable, epoxy-encapsulated construction
- -25 to +60°C operating temperature range

## **Functional Specifications**

Input

Voltage Range ① -36.0 to -75.0Vdc

Current Consumption 13.0mA (max.)

Reverse Polarity Protection +100V (max.)

Transient Protection -200V (1µsec duration)

Performance

Sampling Rate 2.5 readings/second

Resolution 0.1\

Accuracy @ +25°C ±0.1V (typ.), ±0.2V (max.)

Temperature Drift

(-25 to +60°C) ±0.2 counts/°C (max.)

Mechanical

 Dimensions
 1.38" x 0.88" x 1.00"

 Display Type
 3 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%

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

## **Ordering Information**

DMS-20PC-7-DCM -36.0 to -75.0V dc voltage monitor

DMS-20-CP Panel cutout punch

**DMS-BZL3** Panel mount bezel assembly

DMS-BZL4 Panel mount bezel with sealing gasket

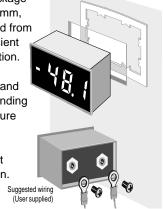
Brass screws (6-32 thread) and a panel-mount retaining clip are

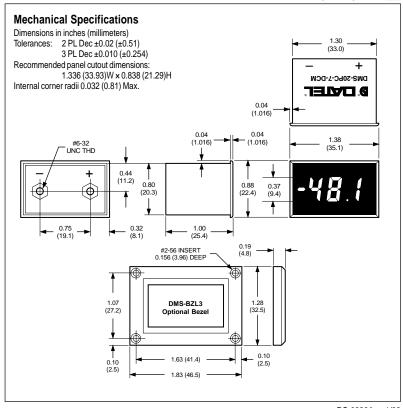
supplied with each meter

DATEL's new DMS-20PC-7-DCM self-powered digital voltage monitor is designed for monitoring –48V intermediate bus voltages in modern telecom/datacom/computer equipment. Its compact size and low power consumption (8mA typical) make it the ideal replacement for older, hard-to-read, analog panel meters. Simply connect a –36 to –75Vdc input across the two rear terminals and the meter is fully operational!

The DMS-20PC-7-DCM's subminiature package (1.38" x 0.88" x 1.0") houses a large, 0.37"/9.4mm, bright red LED display which can be easily read from 15 feet away. Built-in reverse polarity and transient protection assures simple, trouble-free installation.

The DMS-20PC-7-DCM employs a high-resolution, 3½ digit analog-to-digital converter and precision metal-film resistors to achieve outstanding performance over its entire operating temperature range of –25 to +60°C. A rugged, epoxyencapsulated, polycarbonate case (available only from DATEL!) provides excellent protection against moisture, shock and vibration.





DS-0389A 1/9