# 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

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- -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<sup>7</sup>/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 **Current Consumption Reverse Polarity Protection Transient Protection** 

Performance

Sampling Rate Resolution Accuracy @ +25°C **Temperature Drift** (-25 to +60°C)

#### Mechanical

Dimensions **Display Type** Weight Case Material 6-32 screw torque

#### Environmental

**Operating Temperature** Storage Temperature Humidity (Non-condensing)

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



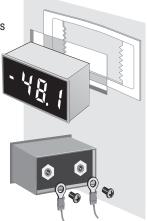


DATEL's new DMS-20PC-7-DCM self-powered digital voltage monitor is designed for monitoring -48V intermediate bus voltages in modern telecom/datacom/computer equipment. Its compact size and low power consumption

(8mA typical) make it the ideal replacement for older, hardto-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, 31/2 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, epoxy-encapsulated, polycarbonate case (available only from DATEL!) provides excellent protection against moisture, shock and vibration.



Typical panel mount installation Suggested wiring (user supplied)

## **Ordering Information**

DMS-20PC-7-DCM DMS-20-CP DMS-BZL3 DMS-BZL4

-36.0 to -75.0V dc voltage monitor Panel cutout punch Panel mount bezel assembly Panel mount bezel with sealing gasket

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



-25 to +60°C

-36.0 to -75.0Vdc

-200V (1µsec duration)

±0.1V (typ.), ±0.2V (max.)

±0.2 counts/°C (max.)

2.5 readings/second

13.0mA (max.)

+100V (max.)

0.1V

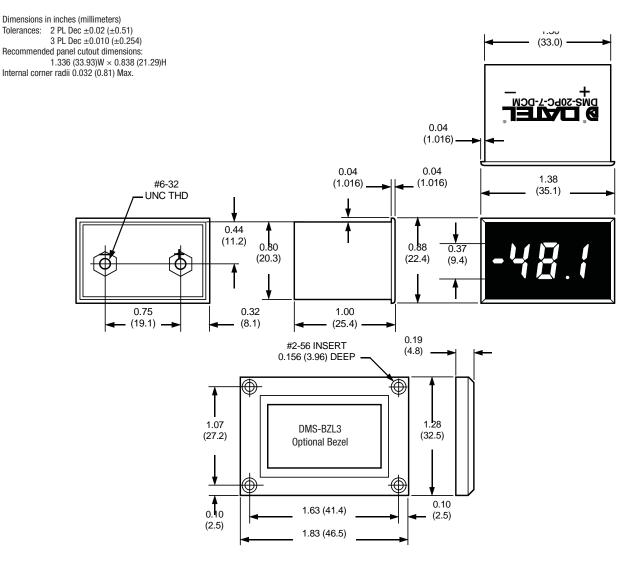
-40 to +75°C 0 to 95%

1.38" x 0.88" x 1.00" 3 digit, red LED, 0.37"/9.4mm



# DMS-20PC-7-DCM

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



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