



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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	0.1V
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
6-32 screw torque	6-8 in-lb (0.7 - 0.9N-m)

Environmental

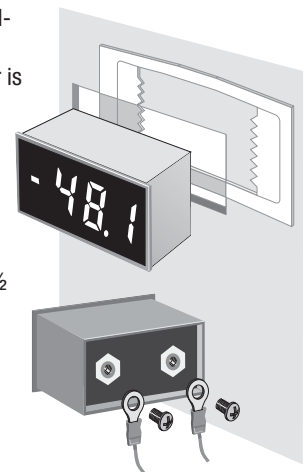
Operating Temperature	-25 to +60°C
Storage Temperature	-40 to +75°C
Humidity (Non-condensing)	0 to 95%

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

DATEL's 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, 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

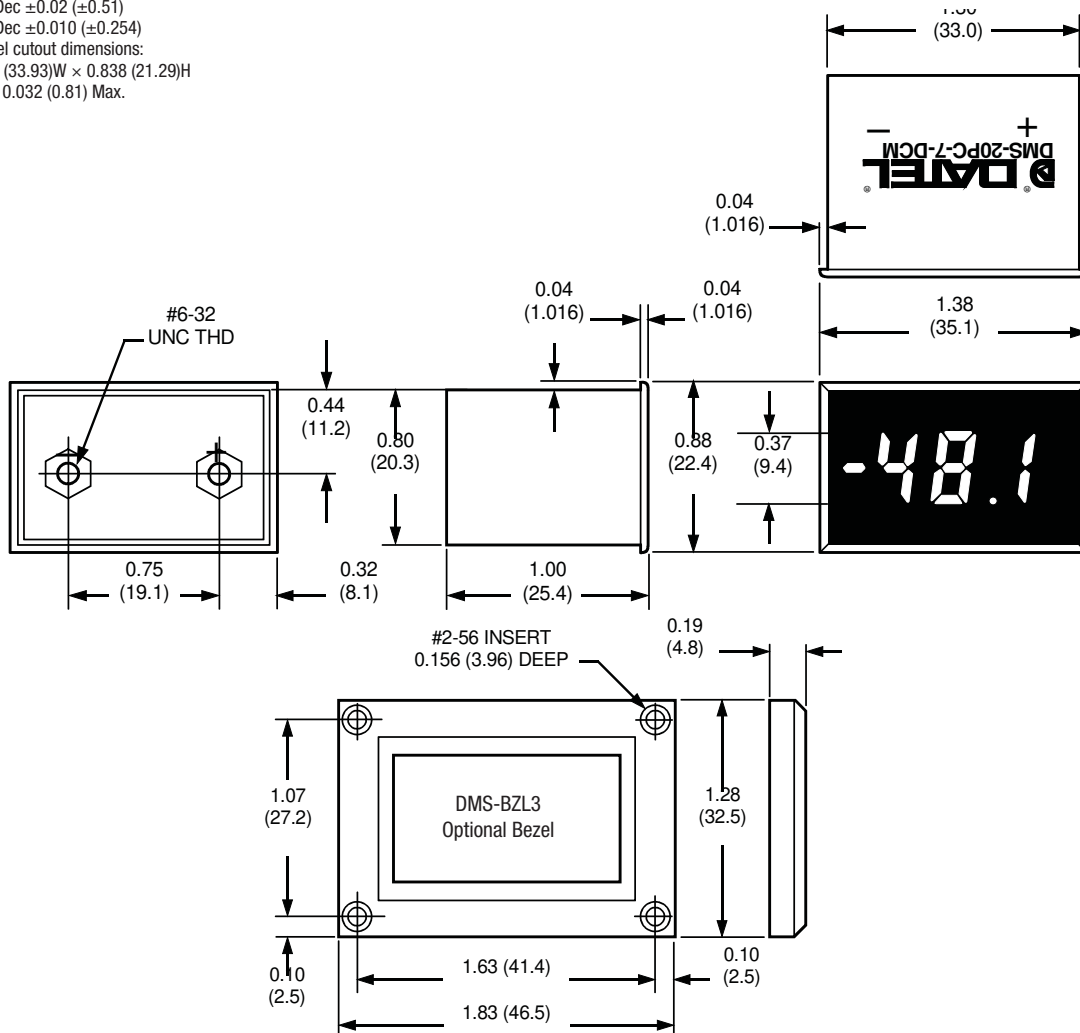
DMS-20PC-7-DCM	-36.0 to -75.0V dc voltage monitor
DMS-20-CP	Panel cutout punch
DMS-BZL3	Panel mount bezel assembly
DMS-BZL4	Panel mount bezel with sealing gasket

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



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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