



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

- Self-powered, requires only two connections
- 160 to 430Vdc measurement range
- Ideal for 380V DC power distribution systems
- Digital replacement for analog panel meters
- Large, easy-to-read, bright red LED display
- Screw-style terminal connections simplify installation
- Rugged silicone-encapsulated plastic package
- Reverse polarity protected to -430Vdc

Functional Specifications

Input

Voltage Range ①	+160 to +430Vdc
Current Consumption @Vin = 430Vdc	3mA (max.)
Reverse Polarity Protection	-430Vdc (max.)

Performance

Sampling Rate	2.5 readings/second
Resolution	1Vdc
Accuracy @ +25°C	±1V (typ.), ±2V (max.)
Temperature Drift (-25 to +60°C)	±0.4 V/°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-lbs (0.7 – 0.9N-m)

Environmental

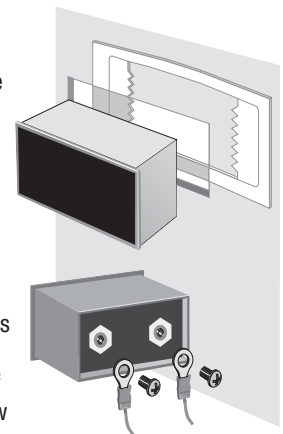
Operating Temperature	-25 to +60°C
Storage Temperature	-40 to +75°C
Humidity (Non-condensing)	0 to 85%

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

DATEL's DMS-20PC-9-DCM self-powered, high voltage DC monitors are specifically designed to measure and display voltages in 380V DC power-distribution systems or battery banks. Simply connect any 160 to 430Vdc source across its rear terminals and the meters are fully operational—no additional components or power supplies are required.

Their large, 0.37"/9.4mm, red LED display can be easily read from 15 feet away (5 meters). These meters accurately display dc bus voltages with 1Vdc resolution. Built-in reverse polarity protection assures simple, trouble-free installation. All DMS-20PC-9-DCMs employ a 3½ digit A/D converter and precision metal-film resistors to achieve outstanding performance over an operating temperature range of -25 to +60°C.

The meter's electronics are housed in an encapsulated, polycarbonate case that also provides excellent protection against moisture, shock, and vibration. The DMS-20PC-9-DCM is designed to fit in the same panel cutout as many of DATEL's AC and DC voltage monitors and AC and DC ammeters; all of your voltage and current monitoring instrumentation can now be sourced from one supplier.



Typical panel mount installation and suggested wiring (user supplied)

Ordering Information

DMS-20PC-9-DCM-C	160 to 430V DC voltage monitor (Red LED)
DMS-BZL4-C	Optional panel mount bezel with sealing gasket
DMS-20-CP	Panel cutout punch

Note: Brass screws (6-32 thread) and a panel-mount retaining clip are supplied with each meter. The '-C' suffix denotes RoHS compliance.

TECHNICAL NOTES



IMPORTANT! To ensure safe and reliable operation, DMS-20PC-9-DCM high voltage monitors must be installed and serviced by qualified technical personnel. Contact Murata Power Solutions if there is any doubt regarding installation or operation.

- 1. Measurement Type:** DMS-20PC-9-DCM AC voltmeters employ a precision analog-to-digital converter and a stable voltage reference to measure and display voltages from +160Vdc to +430Vdc.
- 2. Calibration:** DMS-20PC-9-DCM voltmeters are factory calibrated; there is no provision for calibrating units in the field.
- 3. Panel Installation:** All electrical connections to DMS-20PC-9-DCM must be made after the voltmeter is securely attached to the panel, and with the input DC supply de-energized (off). In high-vibration environments, adequate strain reliefs must be used on all supply wiring. While the supplied brass retaining clip is adequate for most installations, the DMS-BZL4-C optional bezel assembly is recommended for demanding environmental installations. (Continued on next page.)



