



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!



Contact us

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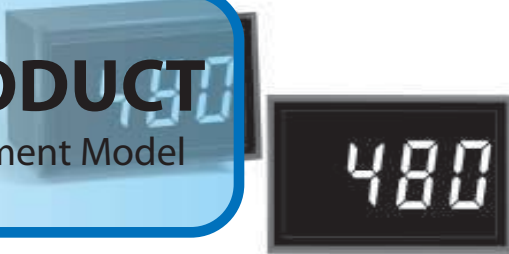
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OBSOLETE PRODUCT

Contact Factory for Replacement Model



FEATURES

- Self-powered, two-terminal operation
- 350 to 600Vac operating input range
- Half-wave averaging, rms calibrated
- Large, easy-to-read, bright red or green LED display
- Rugged, epoxy-encapsulated construction
- Built-in bezel for panel mounting
- Reliable screw terminals for easy installation
- Small 1.38" x 0.88" x 1.0" package

Functional Specifications

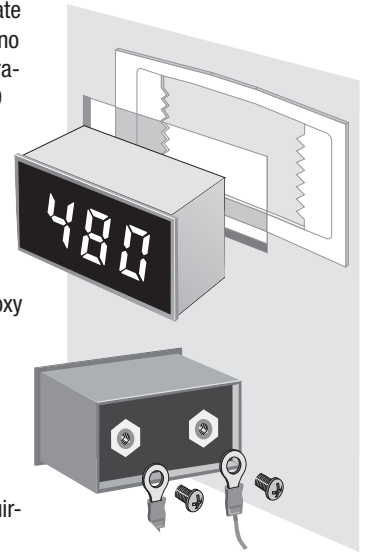
| | |
|----------------------------------|--|
| Input | |
| Voltage Range ① | 350-600Vrms (47-63Hz) |
| Current Consumption | 50mArms (max.) |
| Performance | |
| Sampling Rate | 2.5 readings/second |
| Measurement Type | Half-wave average, rms calibrated for sinusoidal input |
| Accuracy @ +25°C | ±1V (typ.), ±2V (max.) |
| Temperature Drift (-25 to +60°C) | ±0.15 Volts/°C (max.) |
| Mechanical | |
| Dimensions | 1.38" x 0.88" x 1.00" |
| Display Type | 3 digit 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 DMS-20PC-3-LM is a low-cost, self-powered, 2-wire digital voltmeter designed for monitoring 480Vac 3-phase primary power. The DMS-20PC-3-LM's unique power-supply design allows a single model to operate from 350 to 600Vac (47-63Hz). The meter requires no external components or auxiliary power for full operation! Its large, 0.37"/9.4mm, bright red or green LED display is easily readable under virtually all lighting conditions.

DMS-20PC-3-LM employs rms calibrated, half-wave sinusoidal averaging to achieve a display resolution of 1Vac over its full operating range. Packaged in a subminiature (1.38" x 0.88" x 1.0") red-filter case with a built-in bezel, the meter is epoxy encapsulated for ruggedness. An optional bezel assembly, featuring metal fasteners, simplifies panel mounting.

This easy-to-use, vibration-proof voltmeter is the ideal digital upgrade for fragile analog-style panel meters in 480Vac power distribution equipment. It similarly excels in any new application requiring accurate, high-voltage, ac line monitoring.

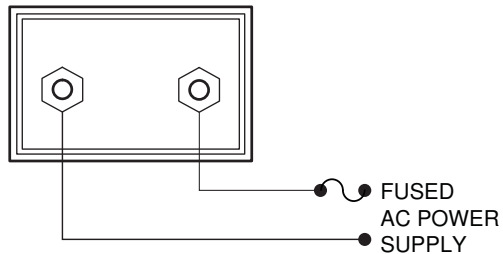


Typical panel mount installation and suggested wiring (user supplied)

Ordering Information

| | |
|--------------------------|---------------------------------------|
| DMS-20PC-3-LM-C | Red LED display |
| DMS-20PC-3-LM-G-C | Green LED display |
| DMS-BZL3-C | Panel mount bezel |
| DMS-BZL4-C | Panel mount bezel with sealing gasket |
| DMS-20-CP | Panel cutout punch |

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



Typical Connection Diagram



Self-Powered LED Display 480V AC Line Monitor

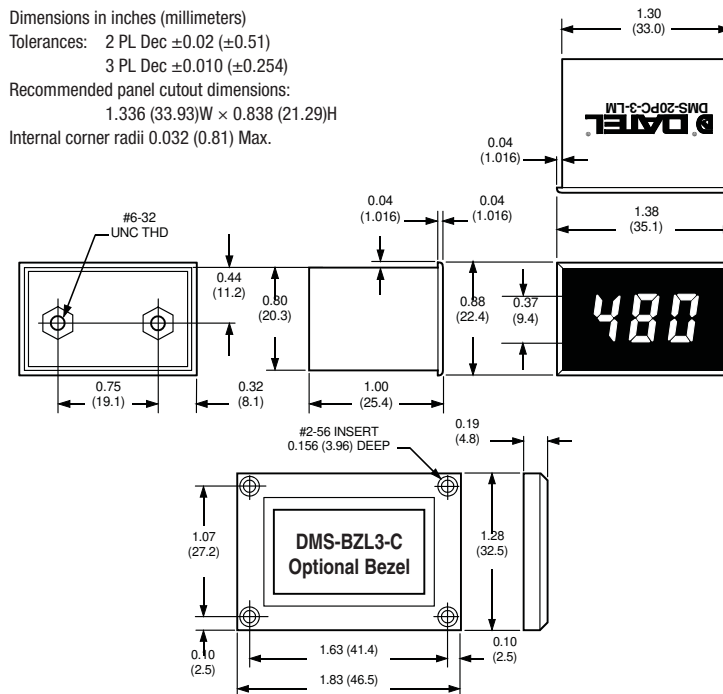
Power Supply Polarity, Fusing, Wiring, and Grounding: DMS-20PC-3-LM's ac-supply terminals are not polarity sensitive, that is, they have no "AC LO" or "AC HI" designations. These meters do not include nor require a connection to earth/chassis ground.

All ac-supply wiring must be rated for the voltages and currents they will conduct and comply with any code or application-mandated requirements pertaining to the user's specific installation. 600V UL rated wire suitable for the intended application is required.

DMS-20PC-3-LM ac voltmeters are not internally fused. The rear threaded

standoff input-terminals are to be used only for powering the voltmeter's internal circuitry; they must not be used to supply power to external loads. The supply wires feeding these voltmeters must be fused with a 0.25A/600V time delay/time lag fuse, in accordance with applicable regulatory codes.

The recommended wire size is 16AWG to 20AWG (1.31mm² to 0.52mm²) stranded copper wire. Wires must be properly stripped and attached to the threaded standoffs such that their insulation is not pinched by the supplied 6-32 screws. Rated tightening torque for the 6-32 screws is 7 to 8 pound-inches (0.8 to 0.9N-m).



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