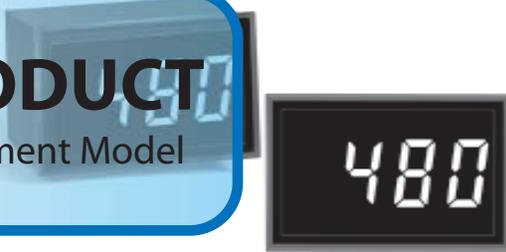


OBSOLETE PRODUCT

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

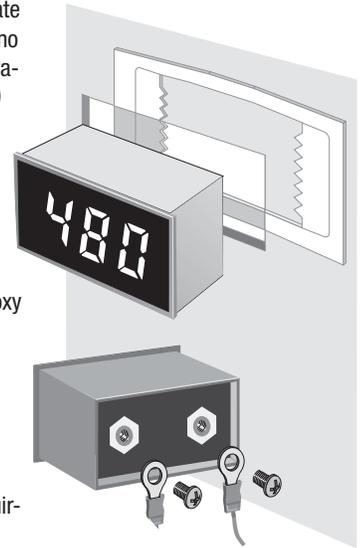
| | |
|----------------------------------|--|
| Input | |
| Voltage Range ① | 350-600Vrms (47-63Hz) |
| Current Consumption | 50mArms (max.) |
| Performance | |
| Sampling Rate | 2.5 readings/second |
| Measurement Type | Half-wave average, rms calibrated for sinusoidal input |
| Accuracy @ +25°C | ±1V (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.

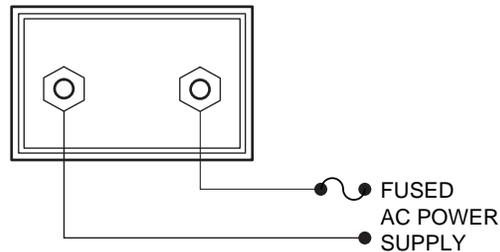


Typical panel mount installation and suggested wiring (user supplied)

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

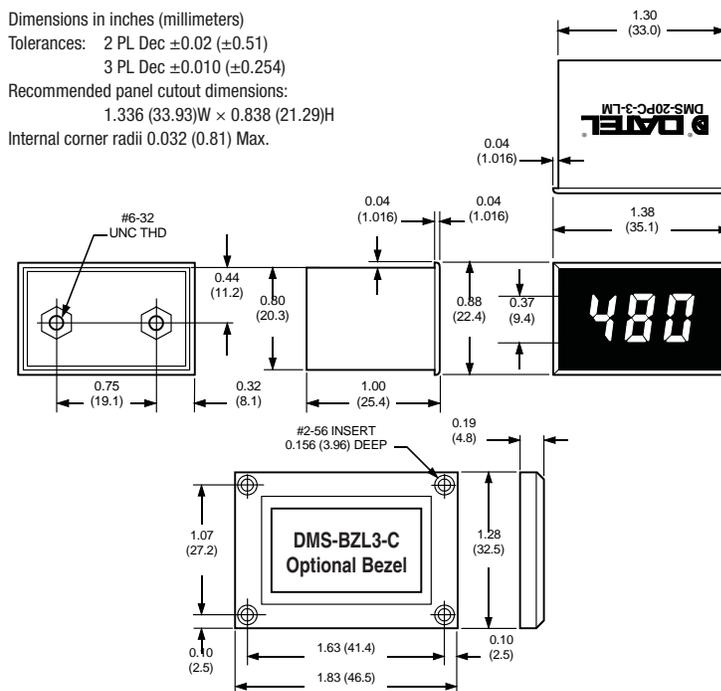
Power Supply Polarity, Fusing, Wiring, and Grounding: DMS-20PC-3-LM's ac-supply terminals are not polarity sensitive, that is, they have no "AC LO" or "AC HI" designations. These meters do not include nor require a connection to earth/chassis ground.

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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