# DMS-20PC-3-LM

## Self-Powered LED Display 480V AC Line Monitor



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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 opera-

tion! Its large, 0.37"/9.4mm, bright red or green LED

display is easily readable under virtually all lighting

DMS-20PC-3-LM employs rms calibrated,

half-wave sinusoidal averaging to achieve a display

red-filter case with a built-in bezel, the meter is epoxy encapsulated for ruggedness. An optional bezel assembly, featuring metal fasteners, simplifies panel

This easy-to-use, vibration-proof voltmeter is

ment. It similarly excels in any new application requir-

the ideal digital upgrade for fragile analog-style

ing accurate, high-voltage, ac line monitoring.

**Ordering Information** 

panel meters in 480Vac power distribution equip-

resolution of 1Vac over its full operating range. Packaged in a subminiature (1.38" x 0.88" x 1.0")

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

#### **FEATURES**

Self-powered, two-terminal operation

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- 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 **Current Consumption** 

#### Performance

Sampling Rate Measurement Type

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

#### Mechanical

Dimensions **Display Type** Weight Case Material

#### **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.



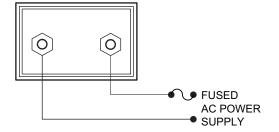
2.5 readings/second Half-wave average, rms calibrated for sinusoidal input  $\pm 1V$  (typ.),  $\pm 2V$  (max.)

1.38" x 0.88" x 1.00" 3 digit LED, 0.37"/9.4mm 1 ounce (28 grams) Polycarbonate

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





#### www.murata-ps.com/dpm

email: sales@murata-ps.com

Typical panel mount installation and

suggested wiring (user supplied)

±0.15 Volts/°C (max.)

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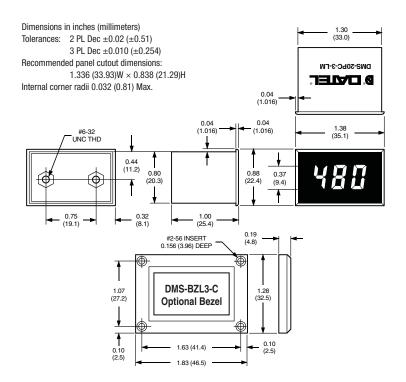
**Power Supply Polarity, Fusing, Wiring, and Grounding:** DMS-20PC-3-LM's ac-supply terminals are not polarity sensitive, that is, they have no "AC LO" or "AC HI" designations. These meters do not include nor require a connection to earth/chassis ground.

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 (1.31mm<sup>2</sup> to 0.52mm<sup>2</sup>) 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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