





DMS-20PC-1-LM

Self-Powered, 3 Digit, LED **AC Line Voltage Monitors**

Features

- Plugs directly into USA-style wall outlets
- · Screw terminals for panel mounting
- Small 1.38" x 0.88" x 1.0" packages
- · Large, easy-to-read, red LED displays
- Fully encapsulated for harsh environments
- Half-wave averaging, rms calibrated
- UL, CSA and IEC1010-1 certified
- Very low cost!

Functional Specifications

Voltage Range ① 85-264Vrms

Overvoltage Protection 300Vrms (Overvoltage category II)

Frequency Range ① 47-63Hz **Current Consumption** 50mArms (max.)

Performance

2.5 readings/second Sampling Rate

Measurement Type Half-wave average, rms calibrated

for sinusoidal input

Accuracy @ +25°C ±1V (typ.), ±2V (max.)

Temperature Drift

 $(-25 \text{ to } +60^{\circ}\text{C})$ ±0.15 Volts/°C (max.)

Mechanical

Dimensions 1.38" x 0.88" x 1.00" 3 digit, red LED, 0.37"/9.4mm DisplayType

1 ounce (28 grams) Weight Case Material Polycarbonate

Environmental

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

① Operation and accuracy at inputs above or below these ranges are not specified.

Ordering Information

DMS-20PC-1-LM With threaded terminations and screws DMS-20PC-1-LM-F With blade terminals, factory installed DMS-20PC-1-LM-R With round terminals, factory installed

DMS-20-CP Panel cutout punch DMS-BZL3 Panel mount bezel

DMS-BZL4 Panel mount bezel with sealing gasket

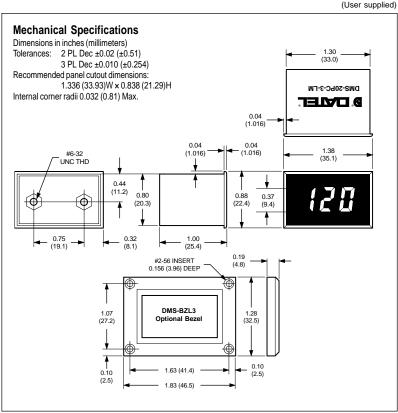
Brass screws (6-32 thread) and a panel-mount retaining clip are

supplied with each meter

DATEL's DMS-20PC-1-LM is a component-size, self-contained, low-cost ac voltmeter for true line measurements. It requires no additional components or auxiliary power. Simply plug it into any wall outlet and instantly read voltages from 85 to 264Vac (47-63Hz). The large (0.37"/9.4mm), bright red LED display makes the DMS-20PC-1-LM easily readable under any lighting

DMS-20PC-1-LM employs half-wave sinusoidal averaging (rms calibrated) and has a DMS-20PC-1-LM-F display resolution of 1Vac over its full input (With blade terminals) range. Packaged in a red-filter case with DMS-20PC-1-I M-R built-in bezel, the meter is fully encapsu-(With round terminals) lated for ruggedness. All units are overvolt-Other NEMA age configurations protected to 300Vac. available on request This low-cost meter is ideal for industrial, laboratory, office and field-service applications. \bigcirc \bigcirc Its miniature size is perfect for design into high-

end consumer electronics, laboratory instrumentation and other products requiring accurate ac line monitoring.



DMS-20PC-1-LM

Suggested

(Panel mount)