



# DMS-20PC-FM

# Self-Powered, 3-Digit, LED **AC Line Frequency Monitors**

Order online at www.datel.com

### **Features**

- · Self-powered, no external supplies required
- 3 models: 47.0-99.0Hz (85-140Vac) 47.0-99.0Hz (170-264Vac) 350-450Hz (85-140Vac)
- . Screw terminals simplify panel mounting
- Ideal for emergency power equipment
- Small 1.38" x 0.88" x 1.0" packages
- . Epoxy encapsulated for harsh environments
- Large (0.40"/10.2mm) red LED displays

## **Functional Specifications**

Freq. Range (Voltage Range): ①

47.0-99.0Hz (85-140Vac) DMS-20PC-1-FM DMS-20PC-2-FM 350-450Hz (85-140Vac) DMS-20PC-3-FM 47.0-99.0Hz (170-264Vac) Current Consumption 50mArms (max.)

Overvoltage Protection:

DMS-20PC-1/2-FM 200Vrms (max.) DMS-20PC-3-FM 300Vrms (max.)

# Performance

Sampling Rate 4 readings/second

Accuracy (-25 to +60°C):

DMS-20PC-1/3-FM ±0.1Hz DMS-20PC-2-FM ±1.0Hz

# Mechanical

1.38" x 0.88" x 1.00" **Dimensions** Display Type 3 digit, red LED, 0.4"/10.2mm Weight 1 ounce (28 grams) Case Material Polycarbonate

### **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 these

ranges are not specified.

## **Ordering Information**

DMS-20PC-1-FM 47.0-99.0Hz/120Vac frequency monitor DMS-20PC-1-FM-F "-1" models with blade terminals DMS-20PC-2-FM 350-450Hz/120Vac frequency monitor DMS-20PC-3-FM 47.0-99.0Hz/220Vac frequency monitor DMS-20-CP

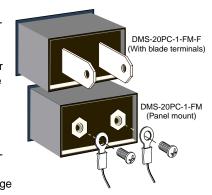
Panel cutout punch DMS-BZL3 Panel mount bezel

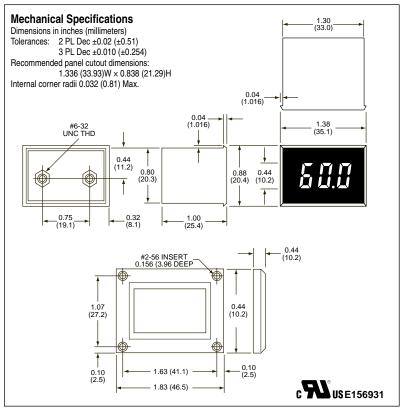
DMS-BZL4 Panel mount bezel with sealing gasket Brass screws (6-32 thread) and a panel-mount retaining clip are

supplied with each meter

DATEL's new DMS-20PC-FM Series are the world's smallest, self-powered, ac frequency meters. Simply connect the ac line to the two rear input terminals, and the unit is fully operational with no additional components or auxiliary power required! Two, 50/60Hz models operate over input voltage ranges of 85-140Vac or 170-264Vac. A third, 400Hz model operates over an input voltage range of 85-140Vac. Despite their small size (1.38" x 0.88" x 1.0"), DMS-20PC-FM meters feature large 0.40"/10.2mm red LED's that can be easily read from 15 feet away.

An ultra-stable, quartz-crystal-controlled, embedded microcomputer provides accuracies of ±0.1Hz (50/60Hz models) or ±1.0Hz (400Hz model) over the entire operating temperature range of -25 to +60°C. Epoxy encapsulated plastic packages provide excellent protection against the harsh environments normally encountered by emergency backup power generators. DMS-20PC-FM meters are the exact same size as DATEL's popular AC Line Voltage Monitors (models DMS-20PC-X-LM).





DS-0387D