



### 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

#### Input

Freq. Range (Voltage Range): ①	
DMS-20PC-1-FM	47.0-99.0Hz (85-140Vac)
DMS-20PC-2-FM	350-450Hz (85-140Vac)
DMS-20PC-3-FM	47.0-99.0Hz (170-264Vac)
Current Consumption	50mA <sub>rms</sub> (max.)
Overvoltage Protection:	
DMS-20PC-1/2-FM	200V <sub>rms</sub> (max.)
DMS-20PC-3-FM	300V <sub>rms</sub> (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

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

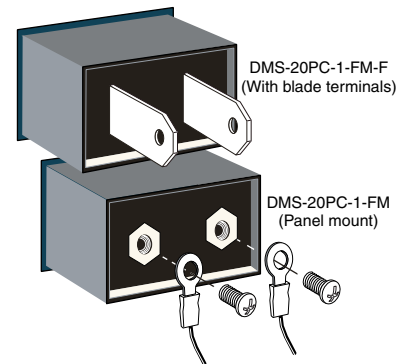
#### Environmental

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.

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).



### Ordering Information

<b>DMS-20PC-1-FM</b>	47.0-99.0Hz/120Vac frequency monitor
<b>DMS-20PC-1-FM-F</b>	"-1" models with blade terminals
<b>DMS-20PC-2-FM</b>	350-450Hz/120Vac frequency monitor
<b>DMS-20PC-3-FM</b>	47.0-99.0Hz/220Vac frequency monitor
<b>DMS-20-CP</b>	Panel cutout punch
<b>DMS-BZL3</b>	Panel mount bezel
<b>DMS-BZL4</b>	Panel mount bezel with sealing gasket

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

