

DMS-20PC-FM Series

Self-Powered, 3-Digit LED Display AC Line Frequency Monitors



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	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

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

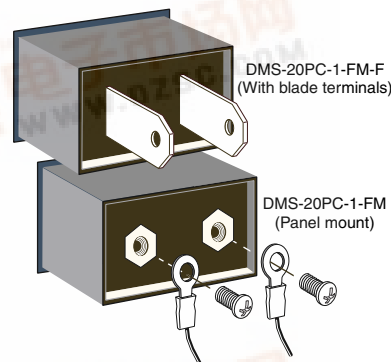
Environmental

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

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.



For full details go to
www.murata-ps.com/rohs

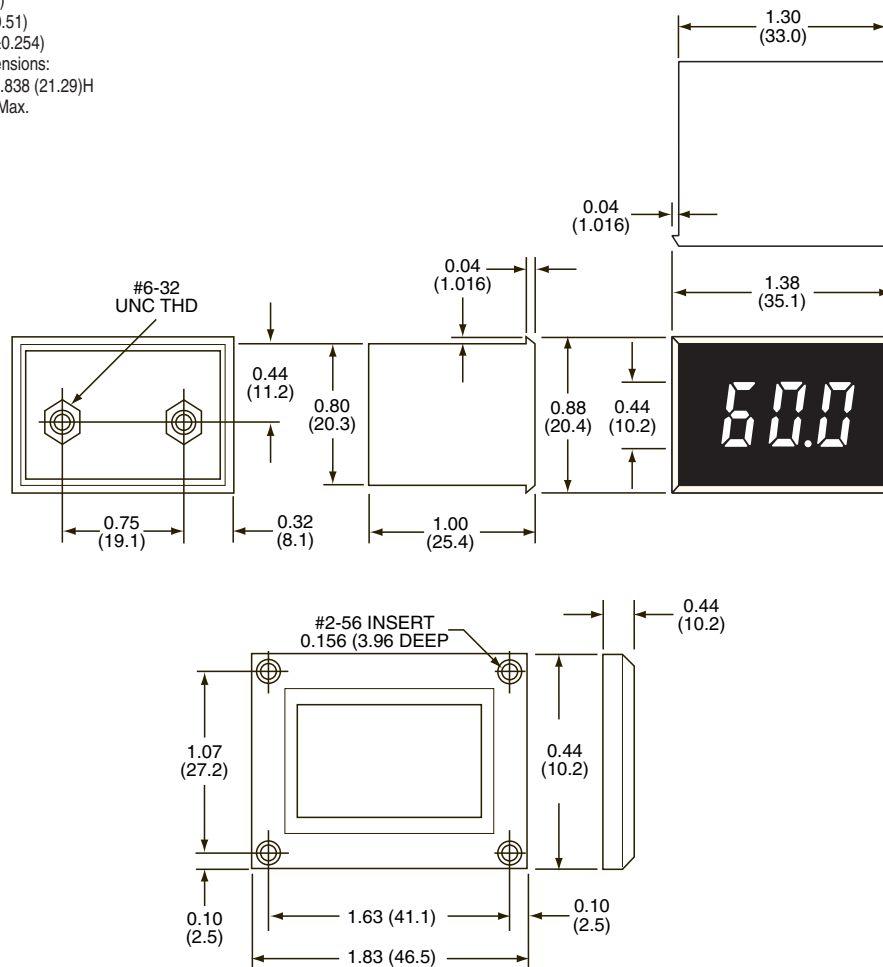
MURATA E156931



www.murata-ps.com

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Dimensions in inches (millimeters)
Tolerances: 2 PL Dec ± 0.02 (± 0.51)
3 PL Dec ± 0.010 (± 0.254)
Recommended panel cutout dimensions:
1.336 (33.93)W x 0.838 (21.29)H
Internal corner radii 0.032 (0.81) Max.



USE156931

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