F SERIES

Single Phase Digital Switchboard Monitor

High-Quality, Easy-to-Read Monitor with Universal Applications

Choice of Measurements

- AC Voltage
- AC Amperage
- AC Frequency
- DC Voltage
- DC Amperage
- Transducer Inputs (Wattage, VARs, etc.)
- Process Signals (Pressure, Temperature, etc.)

Features

- Highly Accurate 12-Bit Resolution
- 4-Digit Readout
- Any Scaling
- .8" Super-Large, High-Output LEDs
- Universal Power Supply
- Directly Replaces ANSI C39.1 Analog Meters

Description

The F Series Digital Switchboard Monitor is a bright, easyto-read device that's perfect for Utility, Industrial and Power Generation Applications. It can display any AC or DC value, and has a 0-1 or 4-20mA Input for Process and Transducer Signals.

Superior Accuracy

The unit's 12-bit Analog-to-Digital Converter provides superb accuracy throughout the scale. This eliminates the chronic problem analog meters have at the low end. Resolution is often critical with a lightly loaded panel; this full 4-digit monitor has a resolution to 9999 counts.

Super-Large LED Display

The super-large, bright LED display can be read up to 300 feet away. This reduces user error and eliminates eyestrain.



Directly Replaces Analog Meters

Because the monitor fits a standard ANSI panel cutout, it's a quick and easy upgrade for your analog switchboard meters.

Rugged, Industrial Design

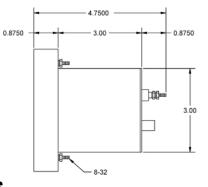
The top-quality LED Display, heavy-duty metal enclosure and electrically protected power supply make this a device that will operate reliably for many years.

Highly Accurate Frequency Measurement

The FF60-1000 models accurately measure Frequency using a Crystal Oscillator and a unique Phase Lock Loop scheme. This technique allows the unit to be calibration free. It also allows the monitor to reject noise on the incoming signal.



Dimensions



CONTROL POWER REQUIREMENTS

115V AC, +20%; 6VA, 47-440Hz (Suffix 115A)

230V AC, +20%; 6VA, 47-440Hz (Suffix 230A)

24-48V DC, +20%; 6VA (Suffix D)

125V AC/DC, +20%; 6VA (Suffix D2)



ACCURACY

DC Volts and Amps: 0.05% of full scale, +1 digit

AC Volts and Amps: 0.2% of full scale, +1 digit

Resolution: 4 digits to 9999 counts

FREQUENCY RANGE

45-1000Hz

Models

VOLTS		
AC Model	DC Model	Full-Scale range
FVA10 FVA100 FVA600	FVD10 FVD100 FVD600	9.999V 99.99V 600.0V

POTENTIAL TRANSFORMER MONITOR				
Model	Maximum Input	Full-Scale range		
FVA120 (Use with Specify Sc		Specify Scaling		

DC SHUNT READOUT				
Model	Maximum Input	Full-Scale range		
FAD50 FAD100 (Use with 100mV sh		Specify Scaling Specify Scaling		

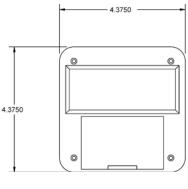
Ordering Info

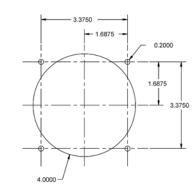
Meter Type	Sensing Method	I	Power Supply*		Primary Scaling**
	-	-		-	
FVD 600	X	-	115 A	-	600.0
See Models Above	- X Averaging		- 115A		Write in scaling value and
	- RMS		-230A		decimal point
	True RMS		-D		
			-D2		
	FVD 600	FVD 600 X See Models - X Above Averaging - RMS	FVD 600X - See Models - X Above Averaging - RMS	FVD 600X - 115 A See Models -X - 115A Above Averaging -230A - RMS True RMS -D	FVD 600 - - 115 A See Models -X - 115 A Above Averaging -230A - RMS -D

 * D, D1, D2 power supply no longer supported for FF60 and FF1000.

** Scaling is limited to four digits, please also write in decimal point location.

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Rugged metal casing with standard ANSI 39.1 cutout

Continuous 200% of maximum rated value, per IEEE

OPERATING TEMPERATURE

(-20 to +70)⁰C

BURDEN

Voltage: 0.1VA maximum Current: 0.1VA maximum

AMPS		
AC Model	DC Model	Full-Scale range
FAA10	FAD10	9.999A
FAA20	FAD20	25.00A

CONSTRUCTION

SURGE WITHSTANDING

C37.90.1 and ANSI C62.41

CURREN	CURRENT TRANSFORMER MONITOR				
Model	Maximum Input	Full-Scale range			
FAA5 (Use with Specify S		Specify Scaling			

IRANSDUCER READOUT					
Model	Maximum Input	Full-Scale range			
FT1 FT20 (Use with C and 4-20m transducers	A	Specify Scaling Specify Scaling			

FREQUENCY MONITOR			
Model	Frequency Range	Frequency Resolution	
*FF60 FF400 *FF10000	5.0 - 99.99 Hz 50.0 – 999.9 Hz 5 – 9999 Hz	00.01 Hz 000.1 Hz 0001 Hz	

UPDATE

600ms le