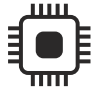


MFM-96AF



Micro
Controller
Based

- Energy Import-Export (4 Quadrant Operation)
- POWER MASTER Software (Optional)
- RS485 Port, 5KV Isolated with MODBUS RTU Protocol (Optional)
- CE Compliance with EN61010-1, EN61326-1
- Inbuilt Memory to Store CTR, PTR, Instrument Address, Password & MD period
- Auto Scroll [5 sec.] / Manual Scroll Display
- Built in 20 Energy Meters of 8 Digit Resolution
- Energy Retention & Password Protected Energy Reset Facility
- Max. Demand for KW or KVA with user Selectable Demand Interval 5-30 Minutes
- Password for Protection of Programmable Parameters
- RUN Hours, ON Hours
- Phase Angle & Phasor Angle Measurement
- Display Previous Energies
- Set Date & Time
- Measurement of Min. & Max. Voltage & Current Values

Features

- TRMS Measurement
- 23 Parameters on 46 Pages
- 4 Rows of 4 Digit Super Bright RED LED Display
- 3 Phase 3 Wire / 3 Phase 4 Wire System (User Selectable)
- Programmable CTR, PTR, Instrument Address, Password & MD Period

Parameters Measured	Accuracy ±(FS +5Digit)	Phase	System
Voltage	± 0.5%	V1N, V2N, V3N, V12, V23, V31	V (System)
Current		I1, I2, I3, NI	I (Average)
Active Power	± 1%	W1, W2, W3	W (System)
Reactive Power		Var1, Var2, Var3	Var (System)
Apparent Power		VA1, VA2, VA3	VA (System)
Maximum Demand	± 0.5%	W1, W2, W3, VA1, VA2, VA3	W (System), VA (System)
Frequency	± 0.2 Hz	NA	Hz (System)
Power Factor	± 1° Electrical	PF1, PF2, PF3	PF (System)
Active Energy	Class 1	KWh1, KWh2, KWh3	KWh Total (Import), KWh Total (Export)
Reactive Energy		KVarh1, KVarh2, KVarh3	KVarh Total (Ind.), KVarh Total (Cap.)
Apparent Energy		KVAh1, KVAh2, KVAh3	KVAh Total
Phase Angle	NA	V1V2, V1V3, V111, V212, V313	NA

Specifications

Display	Simultaneous Display of 4 Parameters, 4 Digits Resolution, 0.36" / 9.2mm Digit Height	Current Input	<0.2VA / Phase	
		System	3P2E3W / 3P3E4W	
Auxiliary Supply Input	85 - 265V AC / DC, Optional : 19 - 90V AC / DC	Standard		
		Installation Category	Cat II (IEC / EN61010-1)	
Voltage/Phase	51 - 300VAC (Max.) PH-N 17 - 138VAC (Max.) PH-N 88 - 519VAC (Max.) PH-PH 30 - 239VAC (Max.) PH-PH	Any one	Pollution	Degree 2 (IEC / EN61010-1)
			Environment	
			Calibration	27°C ± 5°C
			Operating	0 to 50°C, RH < 70%
Current/Phase	0.050A to 1.2A (Max.) 0.250A to 6A (Max.)	Any one	Storage	-10 to 60°C, RH < 70%
			Terminal Block	Plug in type
Frequency	45 - 65 Hz	Any one	Dimensions (mm)	
Power Factor	0.300 Lag (L) - 1.000 - 0.300 Lead (C)		Front	96 x 96mm
VA Burden (Typical)			Depth (Behind Bezel)	90mm
Auxiliary	<2.5VA		Panel Cut-Out	92 ^{+0.8, -0.0} x 92 ^{+0.8, -0.0}
Voltage Input	<0.3VA / Phase		Dielectric Strength	2.5kV at 50Hz for 1 min.
			Insulation Resistance	>20MΩ at 500V DC

Ordering Information : Model, Input Voltage, Input Current, Input Frequency and RS485 MODBUS Communication (Optional)

Terminal Connection

