



MFM-96AF

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

- Energy Import-Export (4 Quadrant Operation)
- IP54 (For Meter Front)
- 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
- THD for Voltage & Current
- 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

Parameters Measured	Accuracy \pm (FS + 5Digit)	Phase	System
Voltage	$\pm 0.5\%$	V1N, V2N, V3N, V12, V23, V31	V (System)
Current		I1, I2, I3, NI	I (Average)
Active Power	$\pm 1\%$	W1, W2, W3	W (System)
Reactive Power		Var1, Var2, Var3	Var (System)
Apparent Power		VA1, VA2, VA3	VA (System)
Maximum Demand		W1, W2, W3, VA1, VA2, VA3	W (System), VA (System)
THD	$\pm 5\%$	V1, V2, V3, I1, I2, I3	NA
Frequency	± 0.2 Hz	NA	Hz (System)
Power Factor	$\pm 1^\circ$ 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, V1I1, V2I2, V3I3

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	85 - 265V AC / DC	Standard		
		Installation Category	Cat II (IEC / EN61010-1)	
Input	Voltage/Phase	Any one	Pollution	Degree 2 (IEC / EN61010-1)
			Environment	
51 - 300VAC (Max.) PH-N	17 - 138VAC (Max.) PH-N	Any one	Calibration	27°C \pm 5°C
			Operating	0 to 50°C, RH < 70%
88 - 519VAC (Max.) PH-PH	30 - 239VAC (Max.) PH-PH	Any one	Storage	-10 to 60°C, RH < 70%
			Terminal Block	Plug in type
Current/Phase	0.050A to 1.2A (Max.)	Any one	Dimensions (mm)	
			0.250A to 6A (Max.)	Front
Frequency	45-65 HZ	Depth (Behind Bezel)	90mm	
Power Factor	0.300 Lag (L) - 1 .000 - 0.300 Lead (C)	Panel Cut-Out	92 ^(+0.8, -0.0) x 92 ^(+0.8, -0.0)	
VA Burden (Typical)		Dielectric Strength	2.5kV at 50Hz for 1 min.	
Auxiliary	< 2.5VA	Insulation Resistance	> 20MOhms at 500V DC	
Voltage Input	< 0.3VA / Phase			

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

Terminal Connection

