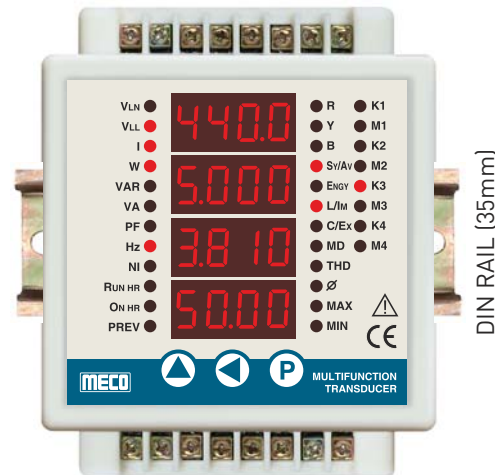
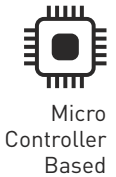


MFM-96AFN



MFT-96AFN DIN RAIL



Features

- TRMS Measurement
- 23 Parameters on 46 Pages
- 4 Rows of 4 Digit Super Bright RED LED Display
- 1 Phase 2 Wire / 3 Phase 3 Wire / 3 Phase 4 Wire System (User Programmable)
- CT/PT Primary & Secondary Programmable
- Programmable CT, PT, Instrument Address, Password & MD Period
- Inbuilt Memory to Store CT, PT, Instrument Address, Password & MD period
- Display Digit Height 0.36" / 9.2mm
- 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

- Baud Rate (2.4-19.2kbps)
- 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 and KVA with user Selectable Demand Interval 5-30 Minutes
- THD for Voltage & Current (1 to 63 Order)
- Password for Protection of Programmable Parameters
- RUN Hours, ON Hours (9999 9999 9999 :59:59)
- Phase Angle & Phasor Angle Measurement
- Display Previous Energies
- Set Date & Time
- Measurement of Min. & Max. Voltage & Current Values
- Sleep Mode for the Display

Specifications

Parameters Measured	Accuracy (%)±[FS +5Digit]	Phase	System
Voltage	0.2	V1N, V2N, V3N, V12, V23, V31	V (System)
Current		I1, I2, I3, NI	I (Average)
Active Power	0.5	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)
Harmonic Distortion [1-63] THD (upto 63rd Order)	5	RVH1-63, YVH1-63, BVH1-63 RIH1-63, YIH1-63, BIH1-63	THD - V, THD - I
Frequency	± 0.2 Hz	NA	Hz (System)
Power Factor	± 1° Electrical	PF1, PF2, PF3	PF (System)
Active Energy	0.5	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	NA

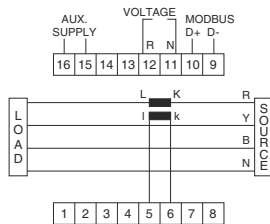
Specifications

Display	Simultaneous Display of 4 Parameters, 4 Digits Resolution, 0.36" / 9.2mm Digit Height		System	1P1E2W / 3P2E3W / 3P3E4W	
	Auxiliary Supply	85 - 265V AC / DC (Standard) @ 50/60Hz		Standard	
19 - 90V AC / DC (Optional) @ 50/60Hz		Installation Category	Cat II (IEC / EN61010-1)		
Input	26 - 520VAC (Max.) PH-PH		Pollution	Degree 2 (IEC / EN61010-1)	
	15 - 300VAC (Max.) PH-N		Environment		
Voltage / Phase	0.100A - 1.2A (Max.) for 1A AC		Calibration	27°C ± 5°C	
	0.100A - 6.0A (Max.) for 5A AC		Operating	0 to 50°C, RH < 70%	
Current / Phase	40 - 70 Hz		Storage	-10 to 60°C, RH < 70%	
Frequency	0.300 Lag (L) - 1.000 - 0.300 Lead (C)		Terminal Block	1) Plug in type for Flush Mounting 2) Screw type for DIN RAIL Mounting	
Power Factor	Dimensions (mm)	Panel Mount	DIN Rail		
VA Burden (Typical)	Front	96 x 96mm	96 x 120mm		
	Depth (Behind Bezel)	90mm	93mm		
Auxiliary	Panel Cut-Out / Mounting	92 ^{+0.8, -0.0} x 92 ^{+0.8, -0.0}		35mm DIN Rail	
Voltage Input	Dielectric Strength	2.5kV at 50Hz for 1min.			
Current Input	Insulation Resistance	>20MΩ at 500V DC			

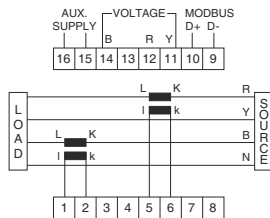
Ordering Information : Model, Input Voltage, Input Current, Input Frequency, Auxiliary Supply and RS485 MODBUS Communication (Optional)

Terminal Connection

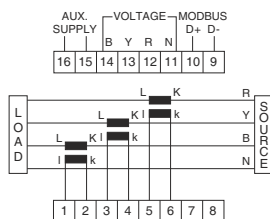
MFT-96AFN DIN RAIL



1 Phase 1 Element 2 Wire

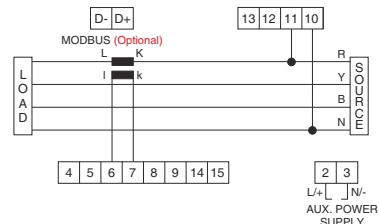


3 Phase 2 Element 3 Wire

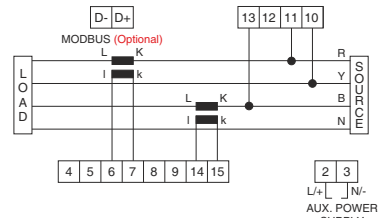


3 Phase 3 Element 4 Wire

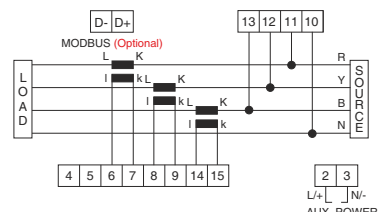
MFM-96AFN



1 Phase 1 Element 2 Wire



3 Phase 2 Element 3 Wire



3 Phase 3 Element 4 Wire