



Features:

- 3 ∅ (True rms) Voltage
- 3 ∅ (True rms) Current
- 3 ∅ Power Factor
- 3 ∅ Power (Active, Reactive, Apparent)
- Energy (Active, Reactive, Apparent)
- Frequency
- Programmable CT/PT Primary/Secondary
- Modbus RTU Communication (RS485) (Optional)
- Single Pulse Output

Size: 1/4 DIN 96mm x 96mm

Certifications: CE  US PENDING

Technical Specifications

Display

Display	4 row, Liquid Crystal Display (Lowest 8 digits for energy display)
Digit	4
Digit Height	0.44" (11.4mm)
Display Range	99999999
Bargraph	Representation of current

Input Specifications

Electrical Connection	3∅-3/4 wire, 2∅-3 wire, 1∅-2 wire
Input Voltage Range	19 to 519V AC, (Phase to Phase) 50/60Hz 11 to 300V AC, (Phase to Neutral) 50/60Hz
Input Current Range	10mA - 5A (6A Max)
Frequency	45Hz / 65Hz
Display Scrolling	Automatic / manual
Display Reset	Programmable (for energy)
Resolution	For energy- 0.01k, 0.1k, 1k, 0.01M, 0.1M, 1M (depending upon CT ratio X PT ratio) For Power, Voltage, Current- Auto resolution For Power factor- 0.001
Accuracy	Voltage(L-N / L-L), Current - ±0.5% of F.S Power factor - ±1% Frequency - 0.1 Hz (For V>20V L-N, V>35V L-L) Power (kW, kVA, kVA _r) - 1% Active energy - Class 1 Reactive energy - Class 1 Apparent energy - Class 1
Memory Retention	10 years (for energy)
Measuring Parameters	Voltage (P-P / P-N) (Individual / Average) Current (I1, I2, I3) (Individual / Average) Frequency, Power Factor (Individual/ Average) Active, Reactive, Apparent power (Individual / Total) Active, Reactive, Apparent Energy (Total)

Output Specifications

Pulse Output	1 (Opto-isolated)
Pulse Voltage	24V DC (Max)
Pulse Current	100mA (Max)
Pulse Duration	100ms ±50ms

Supply Specifications

Auxiliary Supply	85 to 270V AC (50 / 60 Hz)
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Resettable Parameters

C.T Primary	1A/5A to 10,000A programmable for any value
C.T Secondary	1A/5A (External CT must be connected for current more than 5A)
P.T Primary	100V to 500kV programmable for any value
P.T Secondary	100V to 500V (L-L) programmable for any value

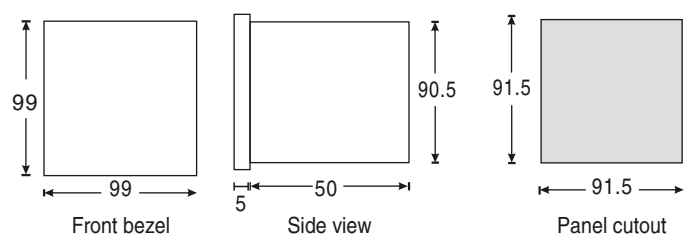
Environmental Specifications

Temperature	Operating Temperature: 0 to +50° C Storage Temperature : -20 to 75° C
Humidity (non-condensing)	Upto 85% RH

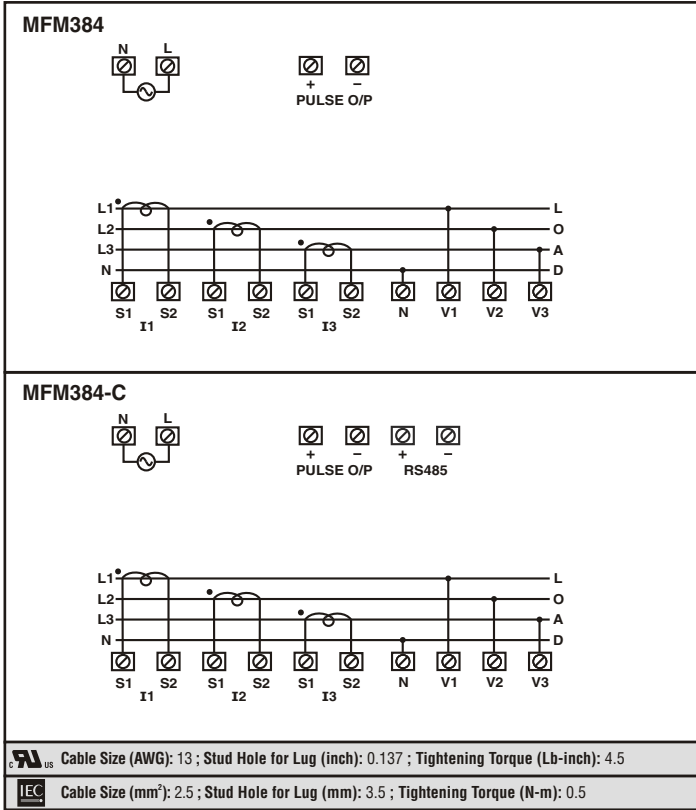
Mechanical Specifications

Mounting	Panel mount
Weight	395 gms
Protection Level	IP65 for faceplate

Dimensions



Terminal Connections



UL US Cable Size (AWG): 13 ; Stud Hole for Lug (inch): 0.137 ; Tightening Torque (Lb-inch): 4.5

IEC Cable Size (mm²): 2.5 ; Stud Hole for Lug (mm): 3.5 ; Tightening Torque (N-m): 0.5

Ordering Information

Part No.	Supply Voltage	Output		Certification	
	85-270V AC	Pulse Output	Commn (RS485)	CE	cUL _{us}
MFM384	■	■			
MFM384-CU	■	■		■	■
MFM384-C	■	■	■		
MFM384-C-CU	■	■	■	■	■

EN-VIEW: Windows based communication software available for data logging.