

Features:

- 3Ø True RMS (Voltage, Current)
- 3 Ø Power (Active, Reactive, Apparent)
- Import / Export Active, Reactive energy , Apparent Energy.
- Programmable CT/PT Primary / Secondary
- Modbus RTU Communication (RS485)
- Max / Min Demand Power

Certifications: **(**€

Display Specification

Display 3 rows, LCD with backlight
Digits Row 1 of 4 digits

Row 2 and 3 of 7 digits

LED Indication Integration of Energy (1000 Pulses /kwh)

Input Specifications

Memory Retention

Electrical Connection 3Ø - 3/4wire, 2Ø - 3 wire, 1Ø - 2 wire
Input Voltage Range 11 to 300V AC, (Phase to Neutral)
19 to 519V AC, (Phase to Phase)
Input Current Range Nominal 5A AC (Min-11mA, Max-6A)
Frequency 45Hz - 65Hz
Display Scrolling Auto / Manual / Default

Power Consumption 8VA Max

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: 0.01

Accuracy Voltage (L-N / L-L), Current: ±0.5% of F.S

Power factor: ±0.01

Frequency: ±0.1% For L-N Voltage >20V

For L-L Voltage >35V

Power (Active, Reactive, Apparent): 1% Energy (Active , Reactive, Apparent): Class 1

10 years (For energy)

Measuring Parameters Voltage (L-L / L-N) (Individual / Average),

Current (I1, I2, I3) (Individual / Average), Frequency, Power Factor (Individual /Total) Active, Reactive & Apparent power (Individual/ Total), Active, Reactive (Import / Export) & Apparent Energy, Demand (Min / Max Active Power, Min / Max Reactive Power, Max

Apparent Power)

Output Specifications

Communication Interface RS485 and MODBUS RTU

and Protocol

Communication address 1 to 255
Transmission mode Half duplex

Transmission distance 500 Meter maximum

Transmission speed 300, 600, 1200, 2400, 4800, 9600, 19200

(in bps)

Parity None, Odd, Even

Stop bits 1 or 2

Response time 100 ms (max and independent of baud rate)

Auxiliary Supply Specifications

Supply Voltage 85 to 270V AC, (50/60Hz)

Settable Parameters

CT Primary 1/5A to 10kA (Programmable for any value)
CT Secondary 1/5A (Programmable)

PT Primary 100V to 500kV (Programmable for any value)

PT Secondary 100V to 500V (Programmable for any

value)

Environmental Specifications

Temperature Operating Temperature: -5 to +60° C
Storage Temperature: -20 to +75°C
Humidity Upto 85% RH

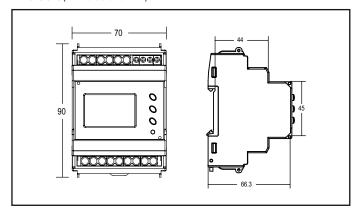
Mechanical Specifications

Mounting	Din Rail
Weight	208 gms

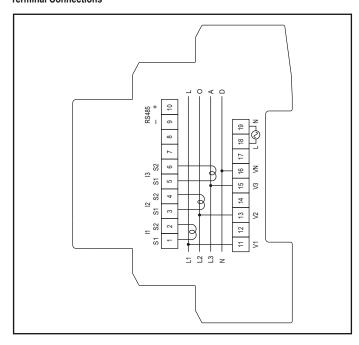
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Multifunction Meter

Dimensions (All dimensions are in mm)



Terminal Connections



Compliance

Applicable EMI / EMC Standards						
Product Standard : IEC 61326-1						
Category		Standards Compliance				
ESD Immunity	IEC 61000-4-2	Level IV (Air discharge : 15kV), (Contact Discharge : -8kV)				
Surge Immunity	IEC 61000-4-5	+/- 2kV common mode, (Line to ground) +/- 1kV differential mode, (Line to Line)				
Radiated Susceptibility	IEC 61000-4-3	Level III, 80 to 1000MHz (10V/m) Level II, 1.4GHz to 2GHz (3V/m) Level I, 2GHz to 2.7GHz (1V/m)				
Conducted Susceptibility	IEC 61000-4-6	Level II (3V/m)				
Voltage Dips and Interruptions	IEC 61000-4-11	Dips: 0% residual voltage / 1 cycle (Criteria B), 40% residual voltage / 10 cycles 50Hz / 12 cycles 60Hz (Criteria C) 70% residual voltage / 25 cycles 50Hz / 30 cycles 60Hz (Criteria C) Interruptions: 0% residual voltage / 250 cycles 50Hz / 300 cycles 60Hz (Criteria C)				
Conducted Emission	CISPR-11					
Radiated Emission	CISPR-11					
Electrical Fast Transient IEC 61000-4-4		Level III (2kV)				

Ordering Information

Product Code	Supply Voltage	Output	Certification
	85 - 270V AC	Comm. (RS485)	C€
MFM384-R-C			
MFM384-R-C-CE	-	-	-

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