

## **Features:**

- 3 Ø (True rms) Voltage
- 3 Ø (True rms) Current
- 3 Ø Power Factor
- 3 Ø Power (Active, Reactive, Apparent)
- Energy (Active, Reactive, Apparent)
- Frequency
- Password Protection
- CT, PT Primary/Secondary Programmable
- Modbus RTU Communication (RS485)
- Max / Min Demand (Power)

Certifications: C€ RoHS

# **Technical Specifications**

## Display

Display	3 row, Liquid Crystal Display with backlight	
Digit	Row 1 of 4 digits Row 2 and 3 of 7 digits	
LED Indication	Integration of energy	

### **Input Specifications**

Electrical Connection	1Ø - 2 wire, 3Ø - 3wire, 3Ø - 4 wire
Input Voltage Range	19 to 519V AC, (Phase to Phase) 11 to 300V AC, (Phase to Neutral)
Frequency	45Hz - 65Hz
Measuring Parameters	Voltage (L-L / L-N) (Individual / Average) Current (I1, I2, I3) (Individual / Average) Frequency, Power Factor (Individual /Average) Active, Reactive & Apparent power (Individual/ Total), Active, Reactive (Import / Export) & Apparent Energy, Demand (Min / Max Active Power, Min / Max Reactive Power, Max Apparent Power)
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)

Current: Auto resolution For Power factor: 0.01 Frequency: 0.1Hz

For Power, Voltage,

Frequency: 0.1Hz

Accuracy

Voltage (L-N / L-L), Current: ±0.5% of

Power factor: ±0.01 of full range Frequency: ±0.1% of full range

(For V>20 L-N, V>35 L-L)

Power (kW, kVA, kVAr): 1% of full range Energy (Active , Reactive, Apparent): 1% of full range

full range

Memory Retention 10 years (for energy)

Overload Rating 20% continuous over load and able to withstanding 20 times the normal current

rating for a period one second.

Accept input voltages upto 120% of the

nominal voltage.

Power Consumption 8VA Max

### **Output Specifications**

Communication	RS485 MODBUS RTU Communication in
	Multi-drop mode

#### **Supply Specifications**

Auxiliary	85 to 270V AC (50/60Hz)	
Isolation	I/P, O/P and Aux. circuits isolated	
	from each other and earth ground.	

#### **Resettable Parameters**

C.T Primary	1/5A to 10,000A (Programmable for any value)
C.T Secondary	1A / 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: -5 to +60° C Storage Temperature: -20 to +75°C
Humidity (non-condensing)	Upto 85% RH

#### **Mechanical Specifications**

Mounting	Din Rail	
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### **Terminal Specifications**

PT	Two 2.5 sq mm / 4.0 sq mm
СТ	Two 2.5 sq mm / 4.0 sq mm

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### **EMC**

Electromagnetic compatibility IEC 61326-1 ESD Immunity: IEC 61000-4-2 Level III

Surge Immunity: IEC 61000-4-5 +/- 2 kV common mode, +/- 1 kV differential mode

Radiated Susceptibility: IEC 61000-4-3 Level III, 80 to 1000MHz

Level II, 1GHz to 2GHz Level I, 2GHz to 2.7GHz

Conducted Susceptibility: IEC 61000-4-6 Level II

Voltage Dips and Interruption:

IEC 61000-4-11

Dips: 0% residual voltage/1 cycle

(Crit B.),

40% residual voltage/10 cycles 50 Hz /

12 cycles 60 Hz (Crit C)

70% residual voltage / 25 cycles 50 Hz

/ 30 cycles 60 Hz (Crit C)

Interruptions: 0% residual voltage / 250 cycles 50 Hz / 300 cycles 60 Hz

(Crit C)

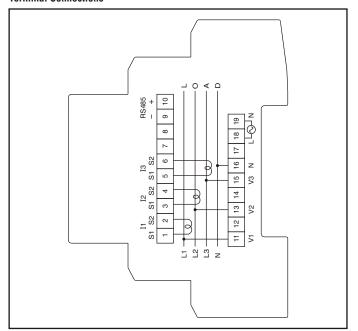
CISPR-11

Level 3.

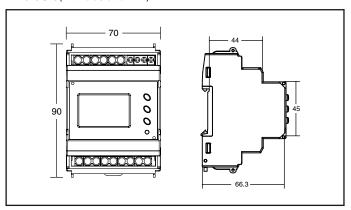
**Conducted Emissions** CISPR-11 & IEC 61000-6-3

Radiated Emissions Electrical Fast Transient: IEC 61000-4-4

#### **Terminal Connections**



#### Dimensions (All dimensions are in mm)



# **Ordering Information**

Duadust	Supply Voltage	Output	Certification
Product	85 to 270V AC	Commn (RS485)	<b>C€</b> RoHS
MFM384-R-C	•	•	
MFM384-R-C-CE	•	•	•