

Features:

- 3Ø True RMS (Voltage, Current)
- 3Ø Power (Active, Reactive, Apparent)
- 3Ø Energy (Active, Reactive, Apparent)
- Monitors electrical parameters for 4 loads (3Ø), 12 loads (1Ø)
- RS485 communication MODBUS RTU protocol
- Energy (Active, Reactive, Apparent)
- Self powered

Certification : **(€**

Display specifications

Display LCD with Backlight, 3 rows

Digits 1 row of 4 digits

2 rows of 7 digits

Digit height 0.24

Resolution For energy: 0.01k, 0.1k, 1k, 0.01M, 0.1M, 1M

(depending upon CT ratio x PT ratio) For Power, Voltage : Auto resolution

For Power factor: 0.01

Voltage (L - L / L - N) : ±0.05% of F.S. Current : ±0.05% of F.S., Frequency : ±0.1% Power & Energy (Active, Reactive, Apparent) : 1%

Protection features Password protected for set-up

Input specifications

Type of measurement TRUE RMS

Sampling rate 100 Samples / Cycle

Electrical connections 3Ø - 4 wire (Wye), 1Ø - 2 wire (L-N)

Data update rate

Instantaneous 1 sec
Demand 15 sec

Input-voltage

PT primary 100V to 10kV (Programmable for any Value)

PT secondary 100V to 500V AC(L-L) (Programmable for any value)

Voltage nominal 240V AC L-N / 415V AC L-L

Measured V with full range 60 to 300V AC, 50 / 60Hz, Self-Supplied, (V1, N)

Permanent overload 750V AC L-L Impedance ≥0.8MΩ Frequency range 45 - 65Hz

VA burden <0.2VA at 300V AC L-N / Phase

Input-current

CT ratings primary 1 / 5A up to 10kA (Programmable for any Value)

CT ratings secondary 330mV

Current nominal 330mV

Measured Amps with over range 3.3mV to 396mV

& Crest factor

Frequency range 45 - 65Hz

Measurement accuracy

 Current
 ±0.5% of F.S.

 Voltage
 ±0.5% of F.S.

 Power factor
 ±0.01

 Power
 1%

 Frequency
 ±0.1%

 Active energy
 1%

 Reactive energy
 1%

Output specifications

Device ID & Parity 1 to 255 & None, Odd, Even
Protocol & Interface RS485 and MODBUS RTU

Baud rate 300, 600, 1200, 2400, 4800, 9600, 19200 baud

Transmission mode Half duplex
Transmission distance 500 meter maximum

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

Stop bits 1 or 2

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

Isolation 2kV RMS

Mechanical specifications

Weight 290 gms (10 Oz)

Material LEXAN 923- 7035 GREY

IP degree of protection (IEC 60529) IP51 Front only

Torque at terminals 0.68 N-m to 0.79 N-m

Mounting position Din Rail

Auxiliary supply specifications

Supply voltage	60 to 300V AC, 50 / 60Hz, Self -Supplied, (V1, N)
Burden	< 6 VA at 277V L-N
Frequency	50 / 60 Hz nominal
Ride-through time	100 ms typical at 120V AC and maximum burden 100 ms typical at 277V AC and maximum burden

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Environmental specifications

Operating temperature Meter -10°C to +55°C (14°F to 131°F)

Storage temperature Meter -20°C to +75°C (-4°F to +167°F)

Humidity Up to 85% RH (Non-Condensing)

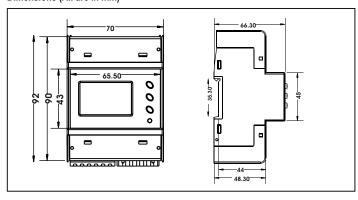
Altitude Up to 2000 meters (6561 ft.)

Measurement category CAT III

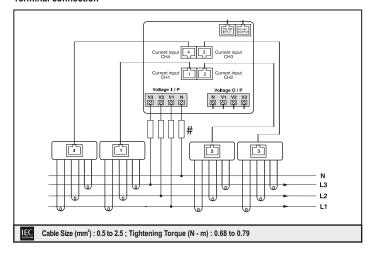
Pollution degree 2

Product life > 5 years

Dimensions (All are in mm)



Terminal connection



Compliance

Applicable EMI / EMC Standards			
Product Standard : IEC 61326 - 1			
Category	Standards compliance		
Electrostatic discharge	IEC 61000 - 4 - 2		
Immunity to electromagnetic RF fields	IEC 61000 - 4 - 3		
Conducted immunity	IEC 61000 - 4 - 6		
Immunity to magnetic fields	IEC 61000 - 4 - 8		
Immunity to voltage dips and interruptions	IEC 61000 - 4 - 11		
Fast transient	IEC 61000 - 4 - 4		
Immunity to surge waves	IEC 61000 - 4 - 5		
Conducted and radiated emissions	CISPR-22 / CISPR-11		
Safety and Standards			
IEC61010 Edition 3.0 CAT III, Protection class II			
IEC 61326 - 1			
CAT III up to 480 V L-L			
CAT II up to 600 V L-L CAT III up to 300 V L-N			
As per IEC/UL 61010-1 Ed-3			

Ordering information

Product code	Supply voltage	Output	Certification
MRJ4M-QUAD	Self Supplied (V1, N) 60 to 300V AC	Comm. (RS485)	C€

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