

MULTIFUNCTION METER


WTMRJ4M2



90 X 70mm

Features:

- ! 3Ø True RMS (Voltage, Current)
- ! Plug-n-Wire quick connect current input
- ! Energy (Active, Reactive)
- ! 3Ø Power (Active, Reactive, Apparent)
- ! Programmable CT Primary, PT Primary/Secondary
- ! Modbus RTU Communication (RS485)
- ! Single Pulse Output
- ! Max Demand power
- ! Self Powered

Certifications:  RoHS

Display Specification

Display	3rows, LCD with backlight
Digits	2 Rows Of 4 Digits, 1 Row Of 7 Digits
LED Indication	Integration of Energy

Input Specifications

Electrical Connection	3Ø-4 wire, 1Ø-2 wire
Input Voltage Range	60 to 300V AC, (Phase to Neutral) 104 to 520V AC, (Phase to Phase)
Frequency	45Hz - 65Hz
Power Consumption	8VA Max
Display Reset	Programmable (For energy)
Display Scrolling	Automatic / Manual
Resolution	For energy: 0.01k, 0.1k, 1k, 0.01M, 0.1M (depending upon CT ratio x PT ratio) For Power, Voltage, Current: Auto resolution
Accuracy	For Power factor: 0.01 Voltage(L-N / L-L), Current: $\pm 0.5\%$ 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): ± 1 of Full Range.
Memory Retention	10 Years (For energy)
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 and Reactive Energy, Demand (Max Active Power, Max Apparent Power)

Output Specifications

Pulse Output	Pulse output: Voltage Range: 24V DC max. Current Capacity: 100mA max. Pulse Duration: Selectable between 0.1 to 2.0 sec. Pulse Weight: Selectable between 0.01 to 9.99 kWh
Communication Interface and Protocol	MODBUS RTU (Rs485)
Communication address	Rs485
Transmission mode	1 to 255
Transmission distance	Half duplex
Transmission speed	500 Meter maximum
Parity	300, 600, 1200, 2400, 4800, 9600, 19200 (in bps)
Stop bits	None, Odd, Even
Response time	1 or 2
	100 ms (max and independent of baud rate)

Auxiliary Supply Specifications

Self Supplied (V1, N)	60 to 300V AC, 50/60Hz ($\pm 5\%$)
Power Consumption	8VA Max

Settable Parameters

CT Primary	5A to 10kA (programmable for any value)
CT Secondary	330mV
PT Primary	100V to 10kV (Programmable for any value)
PT Secondary	100V to 500V AC (L-L) (Programmable for any value)

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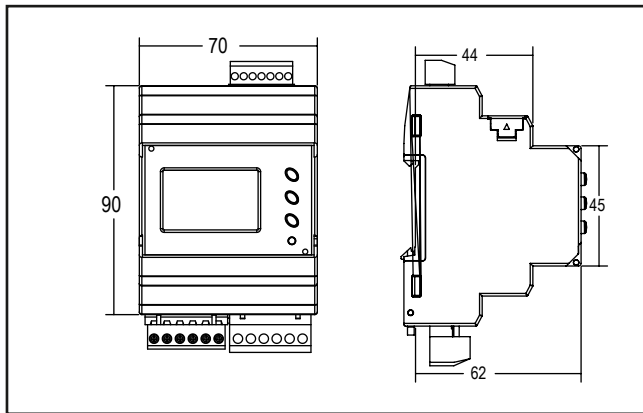
Environmental Specifications

Temperature	Operating Temperature: -10 to +55° C Storage Temperature : -20 to +75° C
Humidity	Upto 85% RH

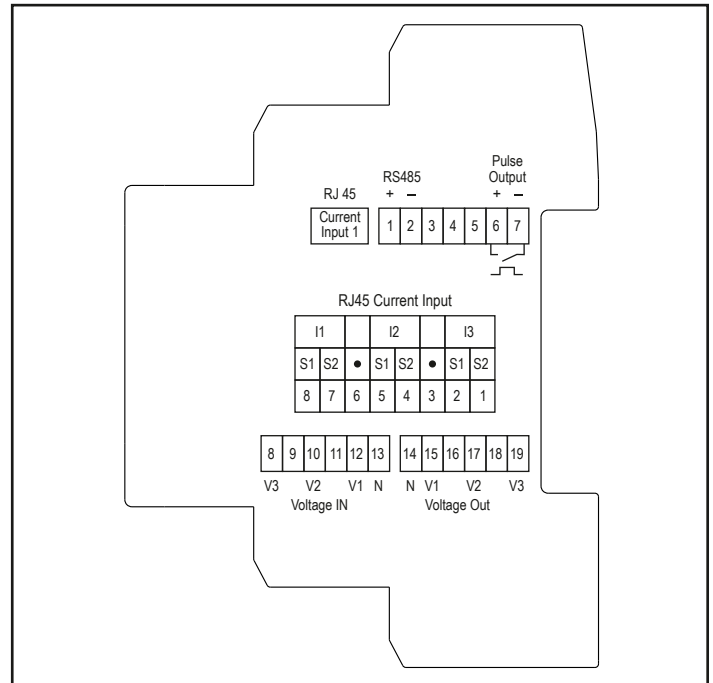
Mechanical Specifications

Mounting	Din Rail mount
Weight	191 gms

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	Output	Ref.No.	Certification
WTMRJ4M2	Pulse Output Commn (RS485)	W605452	CE RoHS