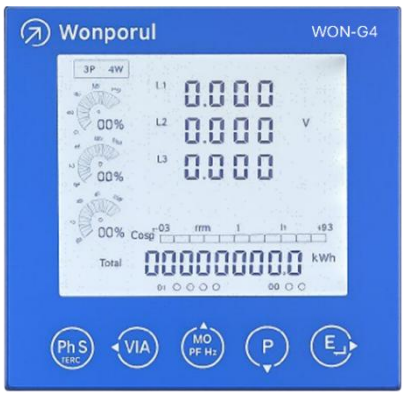
Your Electronic Manufacturing Partner
Wonporul
Technologies (P) Limited

WON – G4
Multifunction Energy Meter + Power Quality Meter Catalogue /Data Sheet

WON – G4



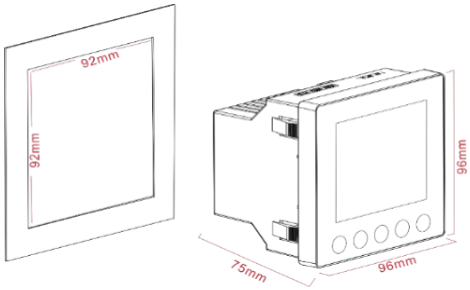
WON-G4 Multifunction Energy Meter + PQ Meter is an advanced power monitoring device that measures energy and power quality parameters in real time.

It helps industries and commercial building and utilities monitor consumptions analyses power quality improve energy efficiency and reduce operational costs beyond basic energy metering.

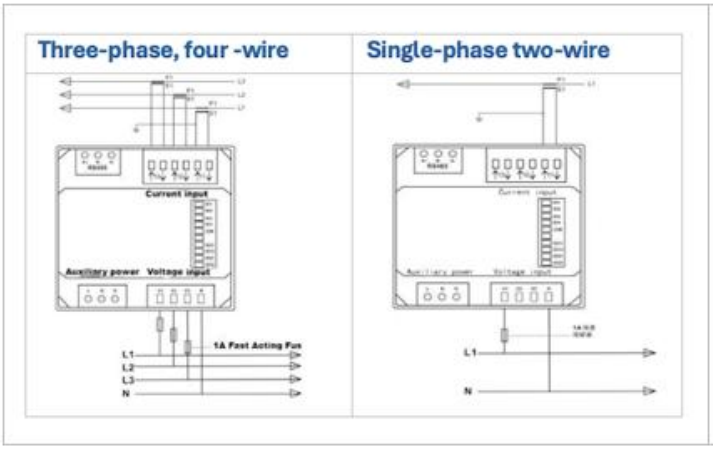
Product Features

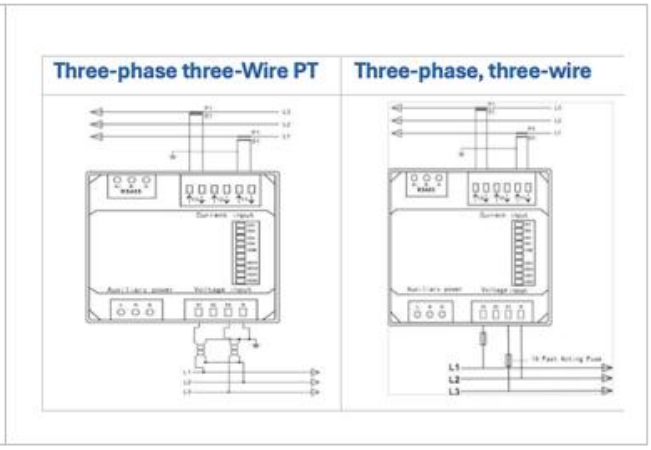
- 4-line high-resolution LCD with backlight
- kWh value always visible on display
- Supports 3-phase power measurement (3P3W / 3P4W)
- RS-485 + Ethernet TCP/IP communication with Modbus- RTU
- AC/DC auxiliary power supply
- Data and settings retained during power failure
- Easy installation and wiring
- Password-protected configuration
- Displays instantaneous, maximum, and average values of V, I, and Power
- Multiple electrical parameters in one compact device.

Dimension



Wiring diagram





Technical Specifications

Parameter	Description	
Instantaneous Value (RMS)		
Voltage	Phase Voltage, Line Voltage	
Current	Three-phase current	
Active Power	Total active power, Each phase active power	
Reactive Power	Total reactive power, Each phase reactive power	
Apparent Power	Total apparent power, Each phase apparent power	
Frequency	45-65Hz	
Power Factor	Total power factor, Each phase power factor	
Total/Import/Export Active Power	Range: 0~999999.999 kWh	
Harmonic Distortion (THD)	Voltage and current	
V&I Harmonics	Up to 63rd Order	
Requirement	Each phase and total power and current	
Configurable Parameters		
Modbus Communications	Modbus Communication Address, Baud Rate, Parity Bit, Stop Bit	
Measurements V&I	CT, PT ratio, and secondary value	
System Protection	User password	
Demand Class	Demand reset	
Pulse Output Class Parameters	Pulse output setting	
Time-Based Parameter	Automatic rotation time, backlight illumination time, system time, start	
Technical	**Parameter**	**Specification**
Suitable Networks	Three-phase four-wire, Three-phase three-wire, Single two-wire, Three-phase three-wire PT	
Operating Power	Auxiliary Supply	AC/DC 85~265V
	Power	≤5W
	Voltage	
	Rating	AC 100V, 220V, 400V
	Overload	1.2x continuous, 2x (10s)
	Power Wattage	<0.4VA/ phase
	Impedance	≥200kΩ
	Current	
	Primary Current	1-9999A
	Secondary Input	1A or 5A
	Short-term Overcurrent	20x maximum current for 0.5
	Power Wattage	<0.2VA/ phase
	Electrical Impedance	≥0.1Ω
	Frequency	45Hz~65Hz
	Switching Input	Dry Contact Input, Opto-Isolated
Output	Switching Output	Relay output; any power alarm
	Pulse Output	1 electrical energy pulse
Accuracy	Voltage/Current	0.5%
	Frequency	0.2%
	Power/Power Factor	1%
	Active Energy	0.5S class
	Reactive Power	1.0 class
	Interface Type	RS485TCP/IP Ethernet
Communications	Communication Protocols	Modbus RTU
	Baud Rate	2400/4800/9600/19200/38400bps
	Address Range	1-247
	Communication Distance	1000m
	Parity	EVEN/ODD/NONE (default)
	Data Bit	8
	Stop Bit	1

Power Quality	Voltage Harmonics -Individual	1-63 order& THD
	Current Harmonics -Individual	1-63 order& THD
Environmental	Operating Temperature	-25℃~55℃
	Storage Temperature	-40℃~70℃
	Operating Humidity	≤90%RH, Non-condensing, non-
	Storage Humidity	≤95%RH, Non-condensing, non-
	Height Above Sea Level	≤2000m
	Installation Category	CAT III
	Pressure Resistance	AC withstand voltage 4KV/1min,
Immunity Test	Rapid Transient Pulse Group	GB/T 17626.4-2008 – EFT: Level 2
	Surge (Shock) Immunity Test	GB/T 17626.5-2008: Test level 4,
	Immunity Test for RF Field	GB/T 17626.6-2008 – RF
	Voltage Dips & Short	GB/T 17626.11-2008 – Voltage
Standards-Compliant	GBT22264.1-2008	General requirements
	GBT22264.7-2008	Multifunction meter requirements
	GBT22264.8-2009	Test methods

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