

SAFETY INFORMATION

This Meter complies with the standards IEC61010: in pollution degree 2, overvoltage category (CAT. III 600V, CAT IV 300V) and double insulation.

CAT. III: Distribution level, fixed installation, with smaller transient overvoltages than CAT. IV

CAT.IV: Primary supply level, overhead lines, cable systems etc.

SPECIFICATIONS

Basic Functions	Range	Best Accuracy
AC Voltage	0-100V/400V/750V	±(1.2%+5digits)
AC Current	0-40A/100A/400A/1000A	±(2%+5 digits)
Active Power	0.01kW-750kW	±(3%+5 digits)
Apparent Power	0.01kVA-750kVA	±(3%+5 digits)
Reactive Power	0.01kVAr-750kVAr	±(4%+5 digits)
Power Factor	0.3~1(Capacitive or Inductive)	±(0.02+2 digits)
Phase Angle	0° ~90°	±2°
Frequency	50Hz-200Hz	✓
Active Energy	0.001~9999 kWh	±(3%+2 digits)
Temperature	-50°C~1300°C	-58°F~2372°F
SPECIAL FUNCTIONS		
Auto Ranging		✓
Single-phase 2-wire		✓
Balance 3-phase 3-wire		✓
3-phase 4-wire		✓
True RMS	AC Voltage (and) Current	✓
Data Logging	99	✓
Data Recall		✓
Max/Min Mode		✓
Data Hold		✓
USB PC Interface		✓
Display Backlight		✓
Full Icon Display		✓
Sleep Mode		✓
Low Battery Display		✓
Input Impedance for AC Voltage		
Measurement	Around 10MΩ	✓
Max. Display	9999	✓
Analogue Bar Graph		✓



**can be used for single phase
and three phase loads**

TECHNICAL SPECIFICATIONS

Accuracy: (a% reading + b digits), guarantee for 1 year.

Operating temperature: 23°C±5°C

Operating humidity: 45~75%R.H

AC Voltage (True RMS)

Range	Resolution	Accuracy	Allowable Maximum overload protection voltage	Input Impedance	Frequency Range
100V	0.1V	±(1.2%+5)	750 RMS	10MΩ	50Hz~200Hz
400V					
750V					

Frequency

Range	Resolution	Accuracy
50Hz~200Hz	1Hz	±(0.5%+5)

AC Current (True RMS)

Range	Resolution	Accuracy	Allowable Maximum overload protection current	Frequency Range
40A	0.1A	±(2%+5)	1000A RMS	50Hz~60Hz
100A				
400A				
1000A	1A			

Active Power ($W=V \times A \times \cos\phi$)

Current / Voltage		Voltage Range		
		100V	400V	750V
Current Range	40A	4.00KW	16.00KW	30.00KW
	100A	10.00KW	40.00KW	75.00KW
	400A	40.00KW	160.0KW	300.0KW
	1000A	100.0KW	400.0KW	750.0KW
Accuracy		±(3%+5)		
Resolution		<1000KW: 0.01KW >1000KW: 0.1KW		

Apparent Power ($VA = V \times A$)

Current / Voltage		Voltages Range		
		100V	400V	750V
Current Range	40A	4.00KVA	16.00KVA	30.00KVA
	100A	10.00KVA	40.00KVA	75.00KVA
	400A	40.00KVA	160.0KVA	300.0KVA
	1000A	100.0KVA	400.0KVA	750.0KVA
Accuracy		±(3%+5)		
Resolution		<1000KVA: 0.01KVA >1000KVA: 0.1KVA		

Reactive Power ($Var = V \times A \times \sin \theta$)

Current / Voltage		Voltages Range		
		100V	400V	750V
Current Range	40A	4.00KVAr	16.00KVAr	30.00KVAr
	100A	10.00KVAr	40.00KVAr	75.00KVAr
	400A	40.00KVAr	160.0KVAr	300.0KVAr
	1000A	100.0KVAr	400.0KVAr	750.0KVAr
Accuracy		±(3%+5)		
Resolution		<1000KVAr: 0.01KVAr >1000KVAr: 0.1KVAr		

Power Factor ($PF = W / VA$)

Range	Accuracy	Resolution	Measuring Condition
0.3~1 (capacitive or inductive)	±0.022	0.001	The minimum measuring current 10A The minimum measuring voltage 45V
0.3~1 (capacitive or inductive)	For reference only		Measuring current less than 10A OR Measuring voltage Range less than 45V

Phase Angle ($PG = \arccos(PF)$)

Range	Accuracy	Resolution	Measuring Condition
0° ~90° (capacitive or inductive)	±2°	1°	The minimum measuring current 10A The minimum Measuring voltage 45V
(capacitive or inductive)	For reference only		Measuring current less than 10A OR Measuring voltage less than 45V

Active Energy (kWh)

Range	Accuracy	Resolution
1~9999kWh	±(3%+2)	0.001kWh

Remarks:

- Allowable maximum overload protection voltage: 750V RMS
- Allowable maximum overload protection current: 1000A RMS