Power Analyzer/Meter

Eco-type Single-phase Power Meter
TM-8100 series

Product description:

TM-8100 series is testing AC and DC input signals, simultaneous display in four windows are voltage, current, power, power factor/ frequency and 2nd-50th harmonics and etc. All measurements are true RMS values. TRMS auto-ranging accuracy: 0.5 class, High immunity to external noise. Standard RS232 communication interface and harmonic testing software. Suitable for production line testing: such as lighting products, home appliances, motors, power supplies, etc.

TM-8100 series

Features

- LED digital screen display: voltage, current, power, power factor/ frequency, 2-50 times Harmonic (TM-8120), Electric energy (TM-8140)
- Can be set current and power lower and upper alarm function.
- All measurements are True RMS.
- Automatic range.
- Support data locking.
- Strong anti-interference.
- Support data locking, MODBUS protocol (TM-8122/TM-8140)
- Not affected by external noise.
- The ratio coefficient can be set and can be equipped with a transformer or current clamp.

Ordering Informations

TM-8120 : 600V/20A/12kW AC Power Meter with Harmonic function
TM-8122 : 600V/20A/12kW AC/DC Power Meter
TM-8140 : 600V/40A/24kW AC/DC Power Meter with Electric energy function

Standard Accessories :

- User Manual
- Power cord

Specifications

Model	TM-8120	TM-8122	TM-8140
Product Type	Harmonic type	AC and DC type	Electric energy type
AC/DC/RMS	AC	AC/DC	
Measuring Function	Voltage, Current, Active power, Power factor, Freuqncy, Apparent power, Reactive power, etc		
Basic Accuracy	±(0.4% read + 0.1% range)	0.5%	
Data Refresh Period	3 times/s	0.1s, 0.2s, 0.5s, 1s, 2s, 5s	
Special Function	Harmonic: 2-50 times		Electrical energy 0-99999mWh
Measuring Mode	True RMS	RMS (Trure RMS, AC(AC), DC(DC)	
Voltage Range	5 ~ 600V AC	5 ~ 600V (AC/DC/RMS)	
Current Range	5mA ~ 20A AC		5mA ~ 40A AC/DC/RMS
Power Range	0.1W ~ 12kW (U*I*PF)		0.1W ~ 24kW (U*I*PF)
Power Factor Range	0.001 ~ 1.000		
Frequency Range	45 ~ 65Hz	40 ~ 400Hz	
Input Impedance	2MΩ		
AD Converter	A 32-bit high-speed processor and 24-bit voltage and current sampling are sampled simultaneously at a rate of 8k/s		
Communication Interface	Standard RS-232 or RS485, Optional relay output function		
Power Input	AC100 ~ 240V, 45 ~ 400Hz, DC100V ~ 300V		
Dimension (WxHxD)	225mm × 112mm × 355mm.	215mm × 88mm × 300mm.	
Weight	Approx: 1.7kg	Approx: 2.8kg	