

FTM7200

Power meter



Features

- The measuring accuracy reaches 0.2%;
- Large LCD display;
- Communication interface standard with standard USB/RS232/RS485;
- 50 harmonic test;
- Nine test parameters on the same screen display;
- The measurement speed is fast, the fastest 0.1S refresh rate;
- AC and DC universal broadband range design, DC~2kHz bandwidth, better load adaptability;
- Reliable, stable, small size, light weight.

5-inch true color LCD high-definition screen display, test data at a glance

Multiple test parameters and the current setting status can be displayed at the same time, which is convenient for users to monitor and analyze the status of the power supply in real time.



Real-time display of electric energy test data

The watt-hour and amp-hour accumulative data can be displayed in real time.



Summary

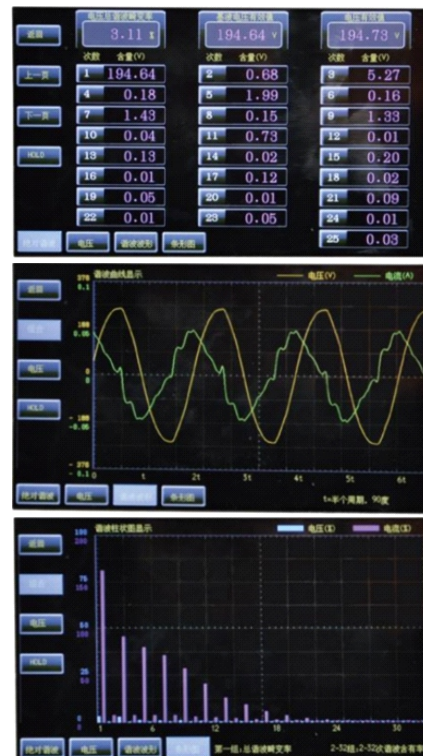
The FTM7200 is a new touch screen power meter with advanced 32-bit high-speed processor and dual-channel 24-bit AD converter. It has the features of high precision, wide dynamic range, compact structure and dexterity. With the continuous introduction of new energy efficiency standards, are around how to improve the energy saving performance of the fierce competition, the product is an essential power measurement instrument for many enterprises to evaluate the energy saving performance of equipment, with high precision, ultra-low standby power consumption measurement and other characteristics, but also support RS232/485, USB communication interface, greatly meet the user's different test communication needs.

Application fields

- Home appliance testing;
- UPS power supply test;
- Engine testing;
- Energy star test;
- Charging pile Test;
- Photovoltaic wind power testing;
- Switching power supply test;

Multi-mode display 50 voltage and current harmonic test data

Can test the absolute harmonics and relative harmonics of voltage and current respectively, three display modes: data list, waveform chart, bar chart.



Ordering information

Model	Measurement voltage range	Measurement current range	Measurement system	Measurement accuracy	Measurement frequency	Harmonic analysis
FTM7200	0. 5V~600V	0. 05mA~40A	Single-phase	0. 2%	DC, 0. 5~2kHz	Maximum 50

Specification table

General specification table				
Item	Specification description			
Parameters				
Measurement accuracy	0. 20%			
Input mode	Voltage and current are floating inputs			
Display mode	LCD screen (touch screen control)			
Display updates	Display refresh cycle 0.1 seconds -5 seconds can be set			
A/D conversion	The sampling period is about 70μS, 24 bit, and the voltage and current are sampled simultaneously			
Input impedance	The voltage input impedance is about 2MΩ, the current input impedance is low 0.5Ω, and the high grade is about 4MΩ. The input impedance of the external sensor signal input terminal changes according to the input voltage, which is about 100kΩ at 10V and 20kΩ at 2V			
Measurement mode	RMS(true RMS), AC(AC), DC (DC), V-MEAN (current rectified average, true RMS of current)			
Overall power consumption	<10VA			
Working power supply	AC100V~240V 45~440Hz DC100V~300V			
Communication port	Standard USB/RS232/RS485			
Dimensions	215mm x 88mm x 300mm (width x height x depth) (without packaging)			
Weight	About 2. 8kg			
Electrical parameter table				
Items	Measurement range	Inaccuracies	Minimum resolution	
Voltage	0. 5V~600V	DC ±(0.1% of reading + 0.2% of range)	0. 001V	
		0.5Hz≤f≤45Hz ±(0.1% of reading + 0.2% of range)		
		45Hz≤f≤66Hz ±(0.1% of reading + 0.1% of range)		
Current	0. 05mA~40A	66Hz≤f≤1kHz ±(0.1% of reading + 0.2% of range)	0. 001mA	
Power	U*I*PF	DC ±(0.1% of reading + 0.2% of range)	0. 001mW	
		0.5Hz≤f≤45Hz ±(0.3% of reading + 0.2% of range)		
		45Hz≤f≤66Hz ±(0.1% of reading + 0.1% of range)		
		66Hz≤f≤1kHz ±(0.2% of reading + 0.2% of range)		
Power factor	0. 01~1. 000	0. 5Hz≤f≤66Hz±0. 01	0. 001	
Frequency	DC, 0. 5Hz~2kHz	66Hz≤f≤1kHz±0. 02		
Electrical energy accumulation	0~999999mWh 0~-999999mWh	0.1%* of reading, when signal value is greater than 0.1* current range	0. 001Hz	
		DC ±(0.1% of reading + 0.2% of range)	0. 0001mWh	
		0.5Hz≤f≤45Hz ±(0.3% of reading + 0.2% of range)		
		45Hz≤f≤66Hz ±(0.1% of reading + 0.1% of range)		
Amperage accumulation	0~999999mAh 0~-999999mAh	66Hz≤f≤1kHz ±(0.1% of reading + 0.2% of range)	0. 0001mAh	
		DC ±(0.1% of reading + 0.2% of range)		
		0.5Hz≤f≤45Hz ±(0.1% of reading + 0.2% of range)		
		45Hz≤f≤66Hz ±(0.1% of reading + 0.1% of range)		
Power chronograph	99999h	66Hz≤f≤1kHz ±(0.1% of reading + 0.2% of range)	1S	
		±2S/h		
Harmonics	1~50 times Accuracy level: Level B ICE61000~4~7	Maximum number of base wave frequency analyses		0. 0001
		10~65Hz 50		
		65~100Hz 32		
		100~200Hz 16		
		200~400Hz 8		

Dimension drawing

