

Digital Power Meter

E. TH3400 series multi-channel digital power meter

Features

- Channel combination: optional 3/4 channels
- AC and DC test
- High stability and consistency: adopt phase-locked loop frequency multiplication synchronization control and power synchronization setting
- High resolution display: 7-inch 800×600 resolution touch screen, support mouse operation
- Display screenshot function
- Broadband input: 45Hz-420Hz, suitable for most power systems on the market
- Embedded system: equipped with embedded operating system, human-computer interaction is more flexible and friendly
- Comparison function: provide comparison output of 8 comparison channels, and the output mode is programmable
- Harmonic analysis: controllable analysis parameters, providing list display and bar graph display
- Waveform display: input signal waveform/integrated power waveform
- Vector display: vector display of input signal
- Flexible energy integration control: provide continuous time control and manual control the running and stopping of energy integration
- File storage: relatively powerful file system, compatible with most U disks
- Protocol: SCPI instruction set and MODBUS instruction analysis

Application

- Power supply: AC power supply, DC power supply, linear power supply, switching power supply, inverter
- New energy: solar batteries, new power cars, electric bicycles



Shelf volume: 215mm(W)x132mm(H)x441mm(D)
Dimensions: 236mm(W)x154mm(H)x475.5mm(D)
Net weight: 8.1kg

Standard RS232 ☒ USB HOST ☒ USB DEVICE ☒ LAN ☒

Option RS485 ☐

- Test and analysis of electrical parameters of electrical equipment such as household appliances, industrial electrical appliances, and various electronic loads
- Automation equipment integration test

Specifications

Model	TH3411	TH3421	TH3422
Number of channels	3	4	4
Display	7 inch (800x480) color TFT resistive touch screen		
Wiring mode	One-phase two-wire (1P2W)	One-phase three-wire (1P3W)	Three-phase three-wire (3P3W)
Basic features	AC	☒	☒
	DC	☒	☒
	Precision type	☒	☒
	Micro current	☐	☒
	Harmonic analysis	☒	☒
Display mode	Electric energy test	☒	☒
	Data	☒	☒
	Integration data	☒	☒
	Waveform graph	☒	☒
	Vector analysis	☒	☒
Basic accuracy	Histogram	☒	☒
	0.15% reading + 0.2% range + 1digit		
	Range	5V-75V/150V/300V/600V (Input impedance: 3MΩ)	
	Resolution	0.01V	
	Current	10mA/30mA/100mA/400mA (Input impedance: 200mΩ)	
Power	Range	1.5A/5A/20A (Input impedance: 4mΩ)	
	Minimum resolution	10μA	
	Range	5mW-12kW	
	Minimum resolution	0.01mW	
	Frequency	Fundamental Frequency range: DC/45Hz-420Hz, Bandwidth: 21kHz, filter 5kHz Minimum resolution	
Power factor	Range	0.01Hz	
	Minimum resolution	-1.000-1.000	
	Range	0.001	
	Minimum resolution	± (5% reading + 0.3% range)	
	Harmonic analysis	0-99999kWh	
Energy integration	Range	0.001Wh	
	Resolution	±(0.2% reading + 0.3% range)	
	Accuracy	0-9999: 59: 59	
	Range	1s	
	Resolution	±0.05%	
Measuring speed	about 7 times/s, harmonic/waveform function is ON: 4 times/s		
Lock function	Data lock		
Range method	Auto/Manual		
Input impedance	≥3MΩ(Voltage input)		
Comparator	Over-limit sound and light alarm		
Output	8 channel programmable relay output		
Communication interface	RS232C/RS485、USB DEVICE、USB HOST、LAN、HANDLER、WIFI(support RTL8192 and MT7601 drive network card)		
Storage	USB waveforms, setting files		