Multi-channel digital power meter

TH3400 series

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

NEW

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 ☐

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
- 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)	Three-phase four-wire (3P4W) / Three-voltage three-current (3V3A)
Basic features	AC	☑	☑	☑
	DC	☑	☑	☑
	Precision type	☑	☑	☑
	Micro current	☐	☐	☑
	Harmonic analysis	☑	☑	☑
	Electric energy test	☑	☑	☑
Display mode	Data	☑	☑	☑
	Integration data	☑	☑	☑
	Waveform graph	☑	☑	☑
	Vector analysis	☑	☑	☑
	Histogram	☑	☑	☑
Basic accuracy		0.15% reading + 0.2% range + 1digit		
Voltage	Range	5V-75V/150V/300V/600V（Input impedance：3MΩ）		
	Resolution	0.01V		
Current	Range	10mA/30mA/100mA/400mA（Input impedance：200mΩ）		1mA/3mA/10mA/40mA（Input impedance：2Ω）
		1.5A/5A/20A（Input impedance：4mΩ）		150mA/500mA/2A（nput impedance：40mΩ）
	Minimum resolution	10μA		1μA
Power	Range	5mW-12kW		0.5mW-1.2kW
	Minimum resolution	0.01mW		0.001mW
Frequency	Range	Fundamental Frequency range：DC/45Hz-420Hz，Bandwidth：21kHz，filter 5kHz Minimum resolution		
	Minimum resolution	0.01Hz		
Power factor	Range	-1.000-1.000		
	Minimum resolution	0.001		
Harmonic analysis		± (5% reading + 0.3% range)		
Energy integration	Range	0-99999kWh		
	Resolution	0.001Wh		
	Accuracy	±(0.2% reading + 0.3% range)		
Energy timing	Range	0-9999：59：59		
	Resolution	1s		
	Accuracy	±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		

Marketed & Supported by-

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