

# 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

## 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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	DC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Precision type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Micro current	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Harmonic analysis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Display mode	Electric energy test	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Data	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Integration data	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Waveform graph	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Basic accuracy	0.15% reading + 0.2% range + 1digit				
	Resolution	5V-75V/150V/300V/600V (Input impedance: 3MΩ)			
Voltage	Range	0.01V			
	Resolution	0.01V			
Current	Range	10mA/30mA/100mA/400mA (Input impedance: 200mΩ)		1mA/3mA/10mA/40mA (Input impedance: 2Ω)	
	Minimum resolution	1.5A/5A/20A (Input impedance: 4mΩ)		150mA/500mA/2A (Input impedance: 40mΩ)	
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				



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

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