Digital Power Meter

E. TH343X TH344X series multi-channel digital power meter

Features

- Channel: 1/3/4
- AC/DC: Support AC and DC input test
- Soft start: using soft power switch design
- High-resolution display: 7 inches, 800×600 resolution, capacitive touch screen, support mouse operation
- Provide screenshot operation
- Broadband input: 0.1Hz-100kHz, suitable for most power systems on the market
- Embedded system: equipped with embedded operating system, the human-computer interaction is more flexible and friendly
- Comparison function: Provides 8 comparison channels for comparison output, and the output mode is programmable
- Harmonic analysis: analysis parameters are controllable, and list display and bar graph display are provided
- Waveform display: Provides basic input signal waveform display function and integrated power waveform display
- Vector display: Provide a vector display of the input signal
- Flexible energy integral control: provide continuous time control and manual control of energy integral run and stop operations
- File storage: a relatively powerful file system, compatible with most U disks (FAT format)
- Abundant interfaces: USB HOST, USB DEVICE, LAN, HANDLER, RS232/RS485 (choose one of two)
- Communication protocol: support SCPI command set and ModBus command parsing

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

- Motors, transformers
- Electronic production design
- Lighting
- Aerospace and military industry
 Network communication
- Network communication
 Audio and video equipment
- Monitoring equipment
- Source class device

Test and analysis of electrical parameters of AC power supply, DC power supply, linear power supply, switching power supply, and inverter and other source output equipment

Load equipment

Test and analysis of electrical parameters of various types of household appliances, industrial appliances, various electronic loads and other electrical equipment

Model		TH3431	TH3433	TH3434	TH3441	TH3443	TH3444
Number Of Channels		1	3	4	1	3	4
Display		7-Inch (800x480) Color TFT Resistive Touch Screen					
Wiring Mode		One-Phase Two- Wire (1P2W)	One-Phase Two-Wire (1P2W)		One-Phase Two- Wire (1P2W)	One-Phase Two-Wire (1P2W)	
			One-Phase Three-Wi	re (1P3W)		One-Phase Three-W	ire (1P3W)
			Three-Phase Three-V	Vire (3P3W)		Three-Phase Th (3P3W)	ree-Wire
			Three-Phase Four-Wi	re (3P4W)		Three-Phase Fo (3P4W)	our-Wire
			Three-Voltage Thre (3V3A)	ee- Current		Three-Voltage Three (3V3A)	e- Current
Basic Features	AC	Y			Y		
	DC	Y		Y			
	Precision Type	Y		Y			
	Micro Current	Y					
	Harmonic Analysis	Y		Y			
	Electric Energy Test	Y		Y			
	Data	Y		Y			
	Integration Data	Y		Y			
Display Mode	Waveform Graph	Y		Y			
	Vector Analysis	Y		Y			
	Histogram	Y		Y			
Basic Accuracy	· /						
Voltage	Basic Accuracy	0.15% Reading + 0.2% Range					
	Resolution	0.001V					
Current	Basic Accuracy	\pm (0.15% Reading + 0.1% Range)					
Resolution					1mA		
Frequency Range Voltage/Current Accuracy							
		\pm (0.1% Reading +0.2% Range)					
		\pm (0.1% Reading +0.2% Range)					
45Hz ≤ Freq < 6	6Hz	\pm (0.1% Reading +0.1% Range)					

Specifications

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66Hz ≤ Freq < 1	lkhz	± (0.1% Reading +0.2% Range)			
$1 \text{khz} \le \text{Freq} < 10 \text{khz}$		± ((0.07*Freq) % Reading +0.3% Range)			
$10 \text{khz} \leq \text{Freq} \leq 100 \text{khz}$		± (0.5% Reading +0.5% Range) ± [0.04*(Freq - 10k)] % Reading			
Input					
	Scope	1V - 600V			
	Range	15V/30V/60V/150V/300V/600V			
	Minimum				
Voltage	Resolution	0.001V			
-	Input Impedance	2 Μ Ω			
		1000V (1S)			
	Allowed Max Input	700V(Continuous)			
	Scope	0.01mA - 2A 0.1mA - 20A			
	Range	0.5mA/1mA/2mA/5mA/10mA/20mA	5mA/10mA/20mA/50mA/100mA/200mA		
	Input Impedance	4 Ω	400m Ω		
	Range	0.05A/0.1A/0.2A/0.5A/1A/2A	0.5A/1A/2A/5A/10A/20A		
Current	Input Impedance	40m Ω	4m Ω		
	Minimum Resolution	0.1uA	1uA		
	Allowed Max Input	3A(1S)	30A(1S)		
		2A(Continuous)	20A(Continuous)		
	Range	0.01mW - 1.2kW	0.1mW - 12kW		
Power	Minimum Resolution	0.001mW	0.01mW		
	Range	Fundamental Frequency Range: DC/0.1Hz - 100kHz, F	ilter 500Hz		
Frequency Minimum Resolution 0.01Hz					
	Range	- 1.000 - 1.000			
Power Factor Minimum Resolution		0.001			
Harmonic	Range	10Hz-1.2kHz			
Analysis	Accuracy	\pm (5% Reading +0.3% Range)			
_	Range	0 - 99999kWh			
Energy	Resolution	0.001Wh			
Integration	Accuracy	\pm (0.2% Reading +0.3% Range)			
	Range	0 - 9999: 59: 59			
Energy Timing	Resolution	1s			
	Accuracy	\pm 0.05%			
Update Rate		Optional 0.1s/0.25s/0.5s/1s/2s/10s/20s			
Lock Function		Data Lock			
Range Method		Auto/Manual			
Input Impedanc	e	≥ 2M Ω (Voltage Input)			
Comparator		Over-Limit Sound And Light Alarm			
Output		8 Channel Programmable Relay Output			
	ssistance Function				
Data Buffer Storage Function		The Test Results Are Stored In A U Disk, And Statistical Analysis Can Be Performed On The PC Side			
Save/Load Function		The Saving Of Setting Data Is Divided Into Measurement Parameter Setting And System Parameter Setting			
Keyboard Lock		Front Panel Keys And Touch Screen Operations Can Be	e Locked To Effectively Prevent Misoperation		
Communication Interface	Serial Communication	RS232C/RS485 Optional			
	USB HOST	Universal Serial Bus Socket, Type A; FAT16/FAT32 Format. U Disk Storage Or Designated Wireless Network Card (WIFI Supports RTL8192 And MT7601) And Other Equipment Support			
	USB DEVICE	Universal Serial Bus Socket, Small Type B (4 Contact Positions); Compatible With USBTMC - USB488 And USB2.0, Female Connector For Connecting External Controllers. Optional CDC Mode Or TMC Mode.			
	LAN	10/100baset Ethernet, 8 Pins, Stable Communication.			
	HANDLER	8 Channel Programmable Relay Output			
Storage	ge USB Waveform, Setting File				
Power Supply		AC220V \pm 10%, 50/60Hz \pm 5%, Soft Power Switch			
Size W*H*D	Working Size Shelf Size	236mm*154mm*475.5mm 215mm*132mm*441mm			
Weight					
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