

# Digital Power Meter

## C. TH3311 Series Digital Power Meter

### Features

- 24-bit color 4.3-inch 480 x 272 color LCD screen, English and Chinese interface
- PLL (phase-locked loop) technology, faster measurement speed
- AC and DC test
- Wide current measurement range
- Input signal waveform display: Voltage and current can be displayed simultaneously or separately
- Higher measurement accuracy and faster data update rate
- Rich display mode:
  - Traditional four-window display
  - Full parameter full screen display
- Higher frequency test range and wider frequency response
- Multiple harmonic analysis display modes: List mode, Histogram
- Data Record Function

### Application

- Appliances
  - TV, refrigerator, air conditioner, washing machines, vacuum cleaners, water heaters and other power efficiency testing
- Industry
  - Electric machinery, motor, transformer, charger, power and other power test



Standard RS232  USB HOST  USB DEVICE  HANDLER

option RS485

Rack mount (mm):215mm(W)x88mm(H)x335mm(D)  
Dimension (mm):235mm(W)x105mm(H)x360mm(D)  
Net weight: 3.6kg

- Lighting
  - Lighting appliances, LED lamps and other power test
- New energy
  - Photovoltaic modules, electric vehicles, wind power and other power test

### Specifications

Model	TH3311	TH3312	TH3321	TH3331
Display	4.3-inch color TFT display			
Connection mode	Single phase			
Basic features	AC	<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"/>
	Precise	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Micro current	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Wide current	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Display mode	Harmonic Analysis	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Power test	<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"/>
	Oscillogram	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Harmonic histogram	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Basic accuracy	0.15% reading + 0.2% range + 1 digit			
Voltage	Range	5V-75V/150V/300V/600V		
	Resolution	0.01V		
Current	Range	10mA/30mA/100mA/400mA/1.5A/5A/20A	1mA/3mA/10mA/40mA/150mA/500mA/2A	10mA/30mA/100mA/400mA/1A/3A/10A/40A
	Minimum resolution	1mA	1uA	1mA
Power	Range	0.01W-12kW	0.01mW-1.2kW,6-class energy efficiency	0.01W-24kW
	Minimum resolution	0.01W	0.001mW	0.01W
Frequency	Range	Fundamental frequency range : DC/45Hz-400Hz, Bandwidth : 21kHz, filter 5kHz Minimum resolution		
	Minimum resolution	0.01Hz		
Power factor	Range	0.001-1.000		
	Minimum resolution	0.001		
Harmonic Analysis	----- ± (5% of reading + 0.3% of range)			
Power integral	Range	0-99999kWh		
	Resolution	0.001Wh		
	Accuracy	± (0.2% of reading + 0.3% of range)		
Power timing	Range	0-9999:59:59		
	Resolution	1s		
	Accuracy	±0.05%		
Measurement speed	3 times / sec DC: 3 times / sec, harmonic function on: 2 times / sec			
Lock function	Data lock			
Range mode	AUTO / MAN			
Input impedance	≥ 1MΩ (all voltage profiles)			
Comparator	limit sound, light alarm			
Output	Relay output			
Communication Interface	RS232C/RS485、USB DEVICE、USB HOST、HANDLER			
Storage	USB waveforms, set files			