

Selection Guide

Series	Model	Voltage Range	Current Range	Frequency Range	Phase Noise	Measurement mode	Harmonic Analysis
UTE9800	UTE9802	3.0V-600V	0.5mA-20.0A	Base frequency: 40Hz~130Hz, BW: 5KHz	$\pm (0.4\% \text{ reading} + 0.1 \text{ range} + 1 \text{ digit})$	AC, DC, AC +DC(T-RMS)	no
	UTE9811	3.0V-600V	5mA-20.0A	Base frequency: 40Hz-70Hz, BW: 5kHz	$\pm (0.4\% \text{ reading} + 0.1 \text{ range} + 1 \text{ digit})$	AC	yes

UTE9800 Series Power Meters



● UTE9802



● UTE9811

- VA code breaking screen is displayed in four windows, and the reading is intuitive.
- Multi window simultaneous display of voltage, current, power, power factor / frequency, stable and fast measurement (UTE9802)
- Accuracy of voltage, current and power: $\pm (0.4\% \text{ reading} + 0.1 \text{ range} + 1 \text{ digit})$
- Power factor accuracy: $\pm (0.004 + 0.001 / \text{reading} + 1 \text{ digit})$
- Multiple windows simultaneously display the measured voltage, current, power, power factor, frequency, voltage peak ratio and current peak ratio. It also has harmonic analysis, stable measurement and fast measurement (UTE9811)
- Automatic switching of voltage and current range
- Phase locked loop (PLL) synchronization method is adopted, and the maximum harmonic analysis is 50 times (UTE9811)
- The AC / DC type is more suitable for the measurement of half wave rectification, and the true value is AC + DC (only UTE9802)
- With RS-232 / RS-485 serial communication interface, it is convenient to communicate with computer or PLC
- The upper and lower limit alarm parameters of current and power can be set freely, with audible and visual alarm indication

The UTE9800 Series intelligent electric parameter measuring instrument, also known as digital power meter, is an economical and portable measuring instrument. It is a multifunctional measuring instrument integrating voltage, current, power, power factor and frequency. It has high cost performance and is widely used in many fields such as production, testing, quality and scientific research.

POWER METERS

Key Specifications		UTE9802	UTE9811
Measurements		V,A,W,PF/HZ	V,A,W,PF/HZ/THD/CF
Measurement method		AC DC AC+DC(T-RMS)	AC
Voltage	Range	3.0V-600V(75V/150V/300V/600V)	3.0V-600V(Auto Range)
	Accuracy	±(0.4% reading + 0.1 range + 1 digit)	±(0.4% reading + 0.1 range + 1 digit)
	Resolution	0.01V	0.1V
Current	Range	0.5mA-20.0A(500mA/2A/8A/20A)	5.0mA-20.0A (Auto range)
	Accuracy	±(0.4% reading + 0.1 range + 1 digit)	±(0.4% reading + 0.1 range + 1 digit)
	Resolution	0.0001A /0.001A/0.01A	0.001A/0.01A
Power	Range	1W-12kW	1W-12kW
	Accuracy	±(0.4% reading + 0.1 range + 1 digit)	±(0.4% reading + 0.1 range + 1 digit)
	Resolution	0.001W/0.01W/0.1W/1W	0.01W/0.1W/1W
Power factor	Range	-1.000-1.000	-1.000-1.000
	Accuracy	±(0.4% reading + 0.1 range + 1 digit)	±(0.4% reading + 0.1 range + 1 digit)
Frequency	Range	Fundamental frequency: 40Hz - 130Hz, bandwidth: 5kHz	Fundamental frequency: 40Hz-70Hz,bandwidth: 5kHz
	Accuracy	±(0.1%reading+1digit)	±(0.1%reading+1digit)
Harmonic analysis	Times	–	1-50times
	Accuracy	–	±(0.3%range+5%reading)
Range switching		Auto / manual	Auto
Automatic range switching	Range increase	The measured value exceeds about 110% of the rated range (CF<3)	The measured value exceeds about 110% of the rated range (CF<3)
	Range reduction	The measured value is less than about 30% of the rated range (CF<3)	The measured value is less than about 30% of the rated range (CF<3)
Preheating time		>30min	>30min
Peak current		Maximum display 24A	Maximum display 24A
Maximum input allowed for connection		Voltage700V, Current 24A	Voltage700V, Current 24A
Instantaneous allowable maximum input		1000V,40A(1s)	1000V,40A(1s)
Input impedance		Voltage: > 5 MΩ, current: < 0.02 Ω	Voltage: > 5 MΩ, current: < 0.02 Ω
Upper and lower limit function		Four settings for upper and lower limits of power and current:	
		P Hi (Power high),	
		P Lo (Power low),	
		A Hi (Current high),	
Interface		RS232, RS485	
		9600、19200、38400、115200 optional	
Display hold		Yes	
Loudspeaker mute		Yes	
Key lock		Yes	
Power		AC 100V-240V, 50/60Hz	
Display		VA Broken code screen, 5 digits, four windows	
Product net weight		2.7kg	
Product size (W×H×D)		214mm×88mm×340mm	
Standard quantity per carton		2pcs	
Standard carton size		405mm×330mm×395mm	
Standard carton gross weight		7kg	

Ordering Information	
UTE9800 Series Power Meters	UTE9802:600V, 20A, 40Hz~130Hz
	UTE9811:600V, 20A, 40Hz-70Hz
Standard Accessories	Power cord conforming to the standard of the destination country
	RS232 interface cable
Optional Accessories	UTE-L10A: 10A national standard three plug to banana head power cable x1 UTE-L16C: 16A test cable with alligator clip x1 UTE-L16A: 16A national standard three plug to banana head power cable x1