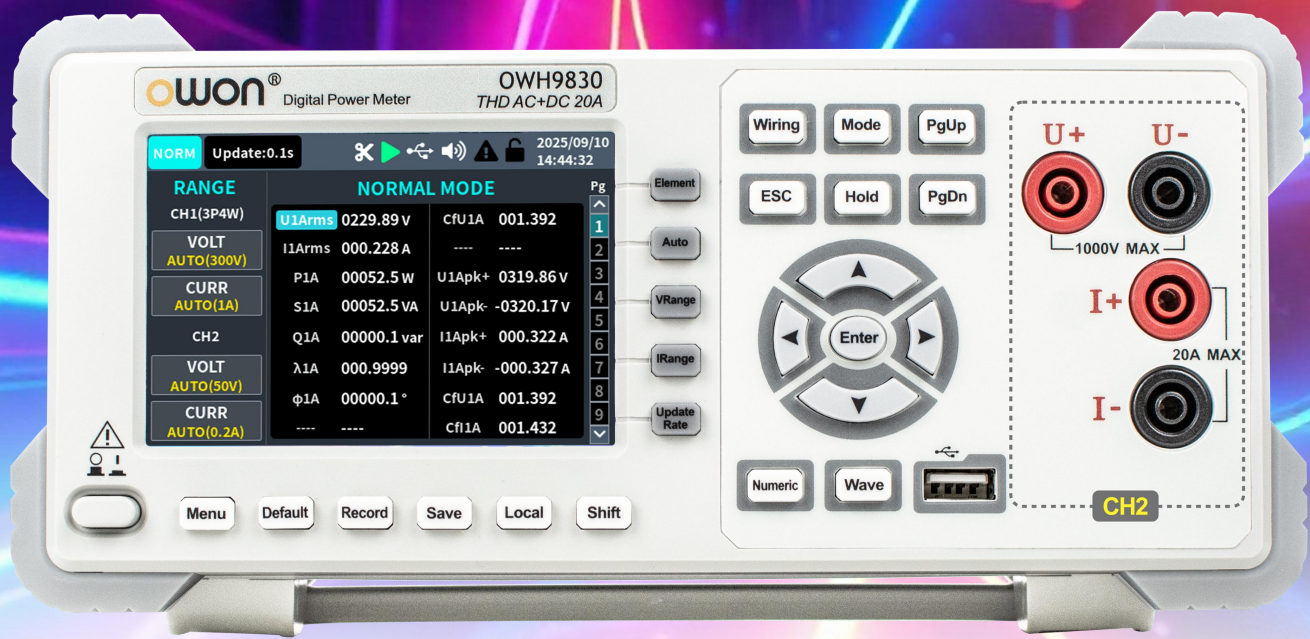




OWH9800 Series Digital Power Meter

Key Features

● Dual-channel Design

CH1 (Rear Panel): AC Input – Supports 3–600V / 0–20A RMS, $\pm 0.5\%$ accuracy.

CH2 (Front Panel): AC/DC Input – Supports 0–1000V / 0–20A, $\pm 0.5\%$ accuracy.

● Single-Phase & Three-Phase Measurement

Supports 16 common electrical parameters to meet comprehensive testing needs in various power systems.

● Auto-Ranging, Class 0.5 Accuracy

Ensures high reliability and measurement precision.

● Harmonic Measurement & Analysis up to 63rd Order

Ideal for applications such as new energy, motor drives, and lighting systems.

● Efficiency Calculation

Automatically computes conversion efficiency using input and output power data from both channels.

● Trend Waveform Display + Real-Time Refresh

Visualizes dynamic parameter changes for easier debugging and analysis.

● 3.95-inch TFT Color Display

Provides multi-parameter graphical representation and intuitive operation.

● Standard Digital Communication Interfaces (RS232)

Supports remote monitoring and data logging; compatible with SCPI commands and Modbus protocol.

● USB Screenshot & Long-Term Data Logging

The instrument supports a minimum logging interval of 100ms and a maximum duration of 72 hours, with synchronous recording of up to 8 parameters for user post-analysis.

Technical Specifications

The instrument must be operated continuously for more than 30 minutes at the specified operating temperature to meet the following specifications:

Model	OWH9811		OWH9830	
Display	3.95-inch TFT Screen			
Update rate	0.1s、0.2s、0.5s、1s、2s、5s			
Measurement items	V, A, W, VA, var, λ, fU, CfU, Cfl, Upk, Ipk, THD			
Measurement method	CH1 1ph-AC	CH2 1ph-AC+DC	CH1 3ph-AC	CH2 1ph-AC+DC
Voltage measurement range	3.0V-600Vrms	0V-1000Vpk ^{*1}	3.0V-600Vrms	0V-1000Vpk ^{*1}
Voltage range	CF=3: 75V/150V/300V/600V CF=6: 37.5/75V/150V/300V	50V/100V/500V/1000V	CF=3: 75V/150V/300V/600V CF=6: 37.5/75V/150V/300V	50V/100V/500V/1000V
Voltage accuracy	±(0.4% of reading + 0.1% of range + 1 digit)			
Voltage resolution	0.01V/0.1V			
Current measurement range	0~20.0Arms	0-20Apk ^{*1}	0~20.0Arms	0-20Apk ^{*1}
Current range	CF=3: 0.2A/1A/4A/20A CF=6: 0.1A/0.5A/2A/10A	0.2A/1A/4A/20A	CF=3: 0.2A/1A/4A/20A CF=6: 0.1A/0.5A/2A/10A	0.2A/1A/4A/20A
Current accuracy	±(0.4% of reading + 0.1% of range + 1 digit)			
Current resolution	0.001A			
ange Switching	Auto/Manual			
Power Range	0~12kW	0~20kW	0~36kW	0~20kW
Power accuracy	±(0.4% of reading + 0.1% of range + 1 digit)			
Power Resolution	0.01W/0.1W/1W			
Power Factor Range	-1.000~1.000			
Power Factor Accuracy	±(0.4% of reading + 0.1% of range + 1 digit)	----	±(0.4% of reading + 0.1% of range + 1 digit)	----
Operating Frequency	40Hz~70Hz	DC+40Hz-70Hz	40Hz~70Hz	DC+40Hz-70Hz
Frequency Accuracy	±(0.1% of reading + 1 digit)	----	±(0.1% of reading + 1 digit)	----
Harmonic Analysis	2.8 kHz bandwidth, up to 63rd order	----	2.8 kHz bandwidth, up to 63rd order	----
Integration Function	Watt-hour (Wh), Ampere-hour (Ah)			
Warm-up Time	>30 min			
Peak Current	60A	30A	60A	30A
Maximum Continuous Input	Vrms=700V; Irms=24A	Vpk=1100V; Ipk=24A	Vrms=700V; Irms=24A	Vpk=1100V; Ipk=24A
Interface	RS232			
Communication Protocol	Standard SCPI , Modbus protocol			
Baud Rate (bps)	4800、9600(default)、19200、38400、57600、115200,			
Display Hold	YES			
Mute	YES			
Key Lock	YES			
Power Supply	AC 100V~240V, 50/60Hz			
Operation environment	18℃ ~ 28℃, 30% ~ 75% RH (When operating temp. is outside 18℃ ~ 28℃, add temp. coefficient: 0.05% of reading / ℃)			
Storage Environment	-10℃ ~ 50℃, ≤ 80% RH (non-condensing)			
Operating Altitude	≤2000 meters			
Weight	1.3kg			
Dimensions	295mm(W) × 110mm(H) ×235mm(L)			

*1: Refers to the maximum DC peak value.

Adjustment Interval: A calibration interval of one year is recommended.