

OWH9822 Digital Power Meter

Technical Specifications

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

Model	OWH9822	
Display	TFT 3.95 inch 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
Voltage measurement range	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
Voltage accuracy	±(0.4% of reading + 0.1% of range + 1 digit)	
Voltage resolution	0.01V/0.1V	
Current measurement range	0~20.0Arms(built-in)/ 0-25kA(external)	0-20Apk ^{*1} (built-in)/ 0-25kA(external)
Current range	CF=3:0.2A/1A/4A/20A(built-in) CF=6:0.1A/0.5A/2A/10A(built-in) CF=3:0.05V/0.1V/0.2V/0.5V/1V/ 2V/2.5V(external)	0.2A/1A/4A/20A(built-in) 0.05V/0.1V/0.2V/0.5V/1V/2V /2.5V(external)
Current accuracy	±(0.4% of reading + 0.1% of range + 1 digit)	
Current resolution	0.001A	
Range Switching	Auto/Manual	
Power Range	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	$\pm(0.4\% \text{ of reading} + 0.1\% \text{ of reading} + 1 \text{ digit})$	----
Operating Frequency	40Hz~70Hz	DC+40Hz-70Hz
Frequency Accuracy	$\pm(0.1\% \text{ of reading} + 1 \text{ digit})$	----
Harmonic Analysis	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
Maximum Continuous Input	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	235mm(D) × 110mm(H) × 295mm(W)	

***1: DC peak maximum value.**

Unless otherwise specified, all above parameters apply to the built-in sensors. The measurement ranges stated herein are valid when voltage and current are above 20% of their rated ranges. Refer to User Manual “Section 4.1” for the definition of 1-digit error.

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



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V1.0.0