

HF-PQ-204

Portable Power Quality Meter



This portable power quality meter delivers IEC Class A measurement precision. It accurately detects harmonics, interharmonics, flicker, voltage fluctuation and three-phase unbalance. Compact and lightweight, it is designed for on-site grid troubleshooting, acceptance tests of substations and renewable energy power stations.

Key features

- Analyze AC power quality delivered from public grids to end users
- Adopt wavelet transform to measure non-stationary time-varying signals
- Evaluate grid disturbances caused by all types of electrical loads
- Dynamically monitor power equipment commissioning and operation for troubleshooting
- Diagnose faults such as transformer overheating, motor burnout and breaker misoperation

Technical specifications

Parameter	Value
Frequency Measurement	Range: 45□55 Hz (center frequency: 50 Hz) Precondition: Fundamental component >= 80% F.S. Max error: <= 0.02 Hz
Input Voltage Range	20 V ~ 900 V
Input Current Range	Standard: 0.06% ~ 6% Optional custom ranges: 25%, 200%, 500%, 1000%, 2000%, 3000%
Fundamental Voltage Amplitude Error	<= 0.5% F.S.
Fundamental Current Amplitude Error	<= 1% F.S.
Phase Difference Error (Fundamental Voltage & Current)	<= 0.5°
Harmonic Voltage Ratio Measurement Error	<= 0.1%
Harmonic Current Ratio Measurement Error	<= 0.2%
Three-Phase Voltage Unbalance Degree Error	<= 0.2%
Voltage Deviation Error	<= 0.2%
Power Measurement Deviation	<= 0.5%

Standard scope of supply

No.	Item	Qty	Notes
1	Main Instrument Unit	1 set	
2	Alligator Clips	8 pcs (4 large + 4 small; 2 pcs each for yellow, green, red, black)	
3	USB Flash Drive	1 pc (for measured data storage)	

No.	Item	Qty	Notes
4	Power Adapter	1 pc (for device charging)	
5	Current Clamps	3 pcs (for current measurement, one for Phase A, Phase B and Phase C respectively)	
6	Voltage Test Cable	1 piece (4-core cable: yellow, green, red, black for voltage testing)	

Compliance and documents

Applicable standards	[TO BE CONFIRMED] standard applied to this model
Calibration certificate	[TO BE CONFIRMED]
Optional accessories	[TO BE CONFIRMED]

Warranty and support

12-month warranty on every exported instrument. English operation manual and remote video guidance at commissioning. T/T, L/C at sight and deposit terms for bulk orders; sea, air or rail shipping.