

# PS4500 Power Quality Analyzer

## Description

The PS4500 Power Quality Analyzer is the best choice if you are looking for a versatile, easy-to-use power quality analyzer that can record energy use, log voltage and current, plus capture power quality events such as transients, sags, swells and track harmonic distortion. Use it on single phase or three phase circuits and loads. You can also add the AMD option for performing on-line electric motor diagnostics using Motor Current Signature Analysis (MCSA).

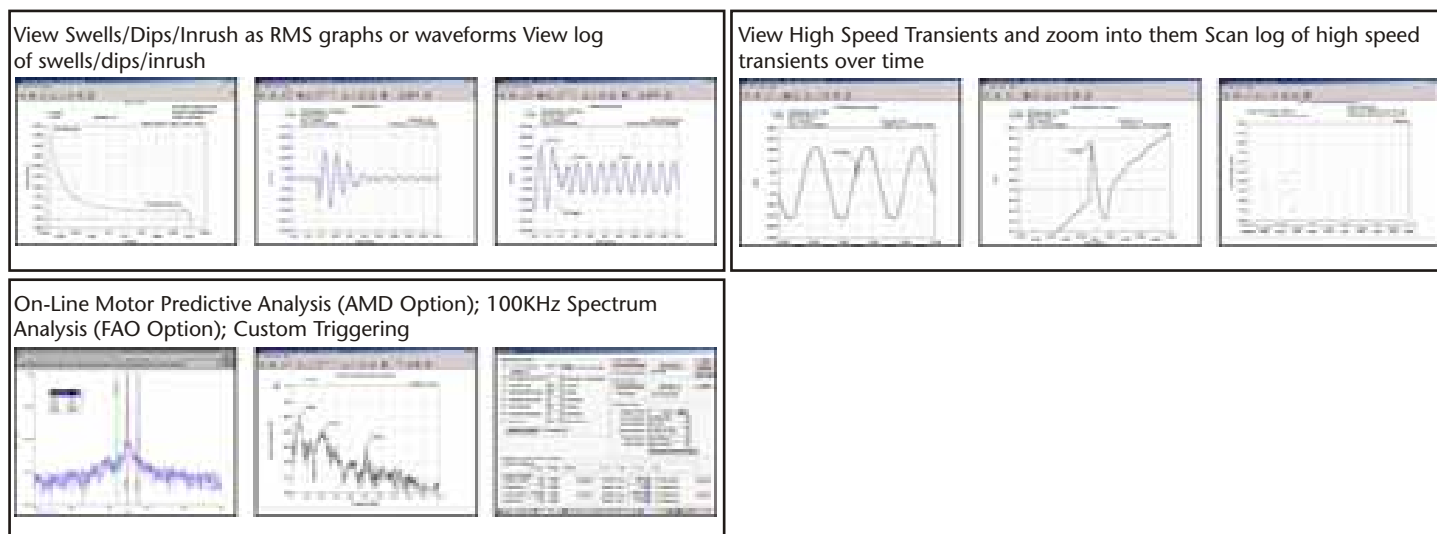
## Features

- **The industry's highest safety standard.** CAT IV
- **The industry's highest sampling rate for RMS.** V, A, W, etc calculated based on 2,083 samples per cycle.
- **Swell, sag, and inrush detection of every half cycle** of all three voltages and all four currents, simultaneously, while doing all other functions
- **Complete Harmonic Analysis** simultaneously on every cycle of every input, while doing all other functions.
- **True High-Speed Transient detection and waveform capture** simultaneously on all inputs, while doing all other functions.
- **Complete power/energy/cost analysis** of any AC or DC power system, while measuring harmonic, swell, sag, and true high-speed transient analysis on all inputs.
- **Compatible with VSD outputs.** 22-200 Hz, 360-440 Hz and DC power
- **Wireless Communications** with Bluetooth technology.
- **"Foolproof" Connections** with SureStart™ patent-pending technology.
- **Provision for Removable Memory** with slot for SD memory.
- **Advanced Options** such as on-line motor analysis utilizing CSA (AMD option) and power-line noise spectrum analysis (FAO option).
- **Complete logging, custom triggering, and waveform capture** capability



**Bluetooth Enabled**

Provided with power analysis software tool that performs complete presentation and analysis of power consumption and Report Writer software which provides concise summaries including comparisons of performance.



PS4500	Meter Displays Values	RMS Volts & Amps	DC Volts & Amps	50 Hz, 60 Hz, & 400 Hz	Energy Demand & Power	Harmonics & THD	Sag & Swell Events	Transients (Impulses)	High Freq. Noise	Motor Diagnostics
PS4500	✓	✓	✓	✓	✓	✓	✓	✓	<input type="checkbox"/>	<input type="checkbox"/>

Optional

# PS4500 Quality Power Analyzer

## Specification

<b>Measurement Rate</b>
Samples every cycle of every input, voltage and current at 2083 samples per cycle (8 μseconds). All measurements updated once per second
<b>Voltage Measurement Range</b>
1-600 Vrms steady-state(direct input); or 600–5,000 Vrms with 5 KVP probes, or 600–15,000 Vrms with 15 KVP probes. Display Range: 1-6 MV (using input ratios) Accuracy: 0.1% of reading ±0.3 Vrms
<b>Current Measurement Ranges</b>
With HA5: 0.02-5A With HA100: 0.1-100A With HA1000: 1-1000A With FX3000: 10-3000A With FX5000: 100-5000A With DC600: 5-600 A DC Display Range: 1 mA-6MA(using input ratios) Accuracy:0.1% of reading plus accuracy of probe
<b>Frequency Measurement:</b>
Range: DC, 22-200Hz, 360-440 Hz fundamental Accuracy:±0.25%
<b>Harmonic Measurement</b>
22-3900Hz(65th harmonic @ 50/60 Hz) Accuracy:0.25%
<b>THD Accuracy</b>
THD and individual harmonics through 25th(1800 Hz) of all signals. With PowerSight Manager PC Software displays harmonics through 65th harmonic
<b>Power, Energy, Cost, Power Factor:</b>
Display Range: 1 watt-60MW (using input ratios) Accuracy: 0.5% plus accuracy of current probe
<b>Swell/Sag Detection</b> Response:1/2 cycle
<b>Transient Detection:</b> High Speed Transient Sampling every 8 μsec
<b>Waveform Snapshot:</b> User captured waveforms set by user allocation of memory
<b>Logging Period</b> (resolution) User selectable from 1 second - 99 minutes
<b>Logging Duration</b> (length of monitoring session) User selectable up to 2 years according to memory allocation.
<b>Power Requirement:</b> 12 VDC@500mA, wall-mount power supply included. Internal Ni-Cad battery operates 8-10 hours after full charge
<b>Size:</b> 196x40x54mm
<b>Weight:</b> 0.5kg

HA 5 & HA100	HA 1000	DC 600	FX 5000	Complete, pre-packaged systems
				
HA5: 0.02A to 5A AC HA100: 0.1A to 100A AC Accuracy: 2%, Size: 5.25" x 2.1" x 1.35" for conductors up to 0.8" diameter	HA1000: 1A to 1000A AC Accuracy: 0.5%, Size 9" x 4.4" x 1.75" for conductors up to 2.13" diameter	DC600: 5A to 600A DC; 5A to 400A, DC/AC Accuracy ±1A ±2%, 5A to 400A; ±1A ±3%, 400 to 600A DC Size: 7.68" x 2.6" x 1.34" for conductors up to 1.18" diameter	FX5000: 100 amps to 5000 amps AC Both models: Accuracy 2%, Size 24" long for conductors up to 7.5" diameter	Systems are equipped with your choice of clamp-on or flexible current probes, voltage leads, plug-in charger unit, PC software and instruction manual. Other options available: 5 KV and 15 KV medium voltage probes.

**Item Code :** ST-PS4500

**Product Supply Includes :** PS4500 Unit, 3 Voltage Probes & Auto Report Generating Software. Current Probes to be purchased as per user option(1 nos for single phase, 3 nos for 3 phase & 4 nos for 3 phase & neutral).