

Power Quality Analysis System

PK5064 complete Graphical Power Quality Analysis System includes the PS5000 Graphical Power Quality Analyzer with extended memory, four eFX6000 flexible current probes, and our CAS3 hard-shell carrying case.

Features

Measure and log all common power measurement types: V, A, kW, kVA, kVAR, kWh, PF, Hz, THD, etc.

Measure and log expanded power measurement types: individual harmonics, voltage and current unbalance, displacement power factor (DPF), pos & neg VAR, separate recording of pos, neg, & net Power.

Capture power quality events in multiple ways to view and record swells, dips (sags), inrush, high speed absolute and relative transients, of both voltage and current. All inputs are sampled continuously and simultaneously so nothing is missed. Wide range of fundamental frequency modes for 50Hz, 60Hz, 400Hz, variable frequency systems, and DC to cover all your needs.

Able to evaluate all power systems: 3 phase Wye, 3 phase Delta (including 4-wire, open, and grounded), split-phase, single phase, quad single phase (using same source), 3PT/3CT, 3PT/2CT, 2 current power, DC, quad DC (using same source).



The included Advanced PowerSight Manager software (PSM-A) improves your efficiency and eliminates sources of error at each stage of the monitoring process:

- TestPlan Manager to organize and automate your tests and the data retrieval
- SureStart expert system to advise if the connections or settings seem correct or not, prior to starting
- Setup Wizard to set your triggering and logging parameters according to your application

- ReportWriter to automatically generate error-free reports.

Benefit from the safety rating of 1000V CAT III, 600V CAT IV and Bluetooth Wireless Communications (remote viewing/control of the display without the burden of wearing PPE).

SD Memory for redundant storage and essentially unlimited logging capacity.

Extend the measurement range with the use of our industry-widest array of accessories and options:

- measure down to 0.002 amps AC (HA-GFD)
- measure from 5 to 2000 amps DC (DC600/DC2000)
- direct connect and measure to 15kV (5KVP/15KVP)
- measure power-line noise to 100kHz (FAO)

First rate technical support, direct from the manufacturer to you!

Specifications

General Specs

Category	Notes
Size	PS5000 Analyzer: 3.88" (9.86 cm) W x 7.72" (19.61 cm) L x 1.58" (4.01 cm) Deep at bottom end; 2.14" (5.44 cm) Deep at top end
Weight	PS5000 Analyzer: 1.1 lbs (0.5 kg)
Operating Range	32 - 122 degrees F (0 - 50 degrees C) Relative humidity to 70% (non-condensing)
Power Requirement	12V DC @ 500 mA
Battery Life	8-10 hours after 4 hour charge
Battery Type	Li-ion
Sampling Rate	8 microseconds for Voltage and Current, continuous/simultaneous
Safety	600V CAT IV, 1000V CAT III
SD Card Slot	Accepts SD Cards to 32GB (SDHC)

Logging Period (Resolution)	1 Second - 99 Minutes (set by user)
Logging Duration (Length of session)	up to 2 years, depending on memory allocation
Internal Data Retention	8 years
Other Features	Crest Factor, K Factor, Peak Demand Period, Peak Demand of Peak, Demand Period, Duty Cycle, On/Off Cycle %, Avg. On Time, Avg Off Time

Voltage Measurement

Category	Notes
Direct Measurement Range	1 - 1,000V (up to 15,000V with optional 15KVP)
Measurement Range	1 - 6 megavolts (using input ratios with PTs)
Accuracy	0.1% of reading ± 0.3 Vrms

Current Measurement

Category	Notes
Direct Measurement Range	1 - 6,000A AC (down to 0.002A with optional HA-GFD, DC to 2,000A with optional DC2000, etc)
Display Range	0.001 - 6 megamps (using input ratios and CTs)
Accuracy	± 1 % of reading ± 0.2 A in low range, ± 2.0 A in high range

Power Measurement

Category	Notes
Direct Measurement Range	1 - 18 megawatts (assuming 1000V, 6000A, PF=1.00, 3-phase power)
Display Range	from 0.002W (using HA-GFD) to 999 megamps (using input ratios and CTs)
Accuracy	± 0.5 % of reading +/- the accuracy of the current probes