The compact, versatile, high quality ruggedized **3 phase power quality and energy analyzer** from **PowerSight**, **USA** are offered in three different model options, PS3550, PS4550 and PS5000. The well laid out function based keypad allows power quality analysis easy for even a first-time user. The lightweight handheld design allows the instrument to be carried easily to site locations; Additionally, the comprehensive software analysis & reporting tools and a variety of current probe options provides versatility of use to the energy auditor and electrical engineers.

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Sümmir 1000	Y GAT AIL	Sümmur 1000V CAT III	Power Quality Analyzer	P\$5000
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Safety :				

- Each Power quality analyzer model offered is rated for both **1000V CAT III and 600V CAT IV** for your safety in the most compromising situations.
- Bluetooth wireless communications allow you to control and view data remotely from a safe distance outside the arc flash blast zone. The strong Bluetooth signal often allows communications with the analyzer even when locked in an electrical cabinet, achieving ultimate safety.

The small size of the instrument allows locking them together inside a panel for extended monitoring.

Features :

All of the Power quality analyzer models Measures, log, and report the following:

- RMS Volts
- RMS Amps
- Watts, VA , VAR , Power Factor, Hz
- THD, Live / scope waveform views
- Real time meters
- Phasors
- Harmonic Spectrum
- Sags, Swells (surges) and inrush (Depending on model)
- Transients, impulses (Depending on model)

SureStart :

On the simple press of a button, the expert mode patented AI Expert System analyzes the inputs to the power analyzers and its operational settings. Prior to initiating monitoring, it provides you with warning of potential connection issues and operational settings.



Power Quality Analyzer PS3550



Feature Comparison:

Advanced

Model	Display		Function Access	Data transfer	Power Analysis Advanced Functions			Accuracy
	LCD Display	Waveform	Keypad	Bluetooth + USB	THD & Harmonics	Swell/Dip Capture	Hi-SpeedTran	Voltage
PS5000		On display	✓		\checkmark	✓	~	+/-0.1%
PS4550	Meter values displayed	On software	25 touch keys for direct	✓	✓	√	~	+/-0.1%
PS3550			function access		\checkmark			+/-0.5%

PSM-A software provided with the instrument presents multiple views of each event, including waveform view, scatterplot view, and RMS ¹/₂ cycle graphic view. It will also export the data to Excel for custom analysis.



PS3550 Power Analyzer is a versatile, easy-to-use 3-phase power analyzer that is ideal for energy audits, load studies, harmonic analysis, and more. Provided with PowerSight Manager software (PSM-A), the PS3550 provides an Efficient and Error Free Solution for doing Power Studies.



Power Logging :

Monitor just about any power system or load in the world:

- 3 phase delta/wye, 4 wire delta, open/grounded delta, 2CT/2PT -3CT/2PT – 3CT/3PT metering circuits, split-phase, single phase, multiple single phase, and of course DC.
- Select any of 68 different measurement types for regular recording of Voltage (V), Current (A), Power (KW), Apparent Power (KVA), True Power Factor (PF), Frequency (Hz), and THD.
- Summaries of the average, maximum, and minimum of each value, as well as the present values can be viewed on the analyzer's display at any time.
- All measurements and the initial automatic capture of waveforms can be viewed and analyzed in our PSM-A software.

Harmonic Analysis :

Log the THD of each input. Capture waveforms in the PS3550 with the press of a button at any time and then analyze the harmonic content with our PSM-A software (power analysis features) as either a harmonic bar chart or as an exported Excel spreadsheet.



Power Quality Analyzer | PS4550

The PowerSight PS4550 Power Quality Analyzer is a versatile, easy-to-use power quality analyzer that is ideal for comprehensive power quality studies, energy audits, load studies, harmonic analysis, and more. It provides all of the features of PS3550 and more

The PS4550 couples small size with **sophisticated triggering and event capture** for power quality study.

Monitor just about any power system or load in the world:

- 3 phase delta/wye, 4 wire delta, open/grounded delta, 2CT/2PT 3CT/2PT 3CT/3PT metering circuits, split-phase, single phase, multiple single phase, and of course DC.
- Select any of 68 different measurement types for regular recording of Voltage (V), Current (A), Power (KW), Apparent Power (KVA), True Power Factor (PF), Frequency (Hz), and THD.
- Summaries of the average, maximum, and minimum of each value, as well as the present values can be viewed on the analyzer's display at any time.
- All measurements and the initial automatic capture of waveforms can be viewed and analyzed in our PSM-A software.





Power Quality studies :

Continuously examine every cycle of every input and trigger to a resolution of 8 microseconds.

Trigger on swell, sag (dip), inrush, and advanced triggering types such as absolute and relative high-speed transient events.

Choose your triggering mode:

- Automatic setting of thresholds for capture of swells, sags, high-speed absolute transients, and high-speed relative transients.
- "Fixed thresholds" that you can set for swells, sags, absolute transients, and relative transients for any of the voltage and current inputs you choose.

Our included PSM-A software (power analysis features) can present multiple views of each event, including waveform view, scatterplot view, and RMS ½ cycle graphic view. It will also export the data to Excel for custom analysis. Summaries of measurements are available on the analyzer's display.

Harmonic Analysis :

Log the THD of each input. Capture waveforms in the PS4550 with the press of a button at any time and then analyze the harmonic content with our PSM-A software as either a harmonic bar chart or as an exported Excel spreadsheet.

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Power Quality Analyzer | PS5000



The PowerSight PS5000 Power Quality Analyzer is the premier member of the PowerSight line of compact, versatile, easy-to-use power quality analyzers. It provides the Most Efficient and Error Free Solution for doing Power Studies.



- The full color display eliminates the need for laptops to see waveforms and logs. Phasor diagrams provide quick verification of connections.
- Visual presentation of SureStart[™] potential connection and setting errors minimize the risk that the data will be incorrect at the end of the study.
- The graphical user interface allows easy changing of trigger thresholds.
- The large screen and "soft keys" allow quickly viewing all measurements of interest quickly.

Monitor just about any power system or load in the world:

- 3 phase delta/wye, 4 wire delta, open/grounded delta, 2CT/2PT 3CT/2PT 3CT/3PT metering circuits, split-phase, single phase, multiple single phase, and of course DC.
- Select any of hundreds of different measurement types for regular recording of Voltage (V), Current (A), Power (KW), Apparent Power (KVA), Reactive Power (KVAR), True Power Factor (TPF), Displacement Power Factor (DPF), Unbalance, Frequency (Hz), THD, and individual harmonic magnitudes over time.
- Log net, positive, and negative VAR separately for meeting reporting requirements and understanding correct compensation required.
- Summaries of the average, maximum, and minimum of each value, as well as the present values can be viewed on the analyzer's display at any time.
- All measurements and the initial automatic capture of waveforms can be viewed and analyzed in our PSM-A software (power analysis features).

Power Quality studies :

Continuously examine every cycle of every input and trigger to a resolution of 8 microseconds.

Trigger on swell, sag (dip), inrush, and advanced triggering types such as absolute and relative high-speed transient events.

Choose your triggering mode:

- Automatic setting of thresholds for capture of swells, sags, high-speed absolute transients, and high-speed relative transients
- "Fixed thresholds" that you can set for swells, sags, absolute transients, and relative transients for any of the voltage and current inputs you choose.



Harmonic Analysis :

Log the THD of each input. Capture waveforms in the PS5000 with the press of a button at any time and then analyze the harmonic content with our PSM-A software as either a harmonic bar chart or as an exported Excel spreadsheet.

The display of the PS5000 provides:

- Versatile graphical viewing of waveforms, phasors, harmonics, log data, trending data, and error conditions.
- Tabular views of all relevant measurements grouped in the most meaningful views, in large fonts.



Current Probe Options :

Product	Features	AC/ DC	Current Range	Max Diameter Opening (inch)	Accuracy (%) Resolution
eFX6000	 Wide range flexible current probe Dual range probe Flexible rope-type technology allows use in tight spaces where clamp-ons cannot fit Thin enough (0.4") to thread between tight conductors and long enough (24") to wrap around multiple conductors and bus bars Dual range for high accuracy 	AC	 TO 6000A_{RMS} 1.0 A_{RMS} to 150 A_{RMS} AC Current measurement 10 A_{RMS} to 6000 A_{RMS} AC Current measurement 	7.25 (24" length) IP65 ROHS and WEEE Compliant EN 61010-1:2001 EN 61010-031:2002 EN 61010-2-032:2002 IP65 (Ingress protection) EMC EN61326-2- 2:2006	 Accuracy : +/- 1% of reading when coupling is situated away from conductor as shown add +/- 2% if varying position around the conductor plus +/- 0.5 A_{RMS} (high range) plus +/- 0.1 A_{RMS} (low range) Frequency range: 22-440 Hz Resolution : +/- 0.1 amps (in low range) +/- 0.5 amps (in high range) ±/- 0.2% from 10% to 100% of range
HA1000	High Accuracy Current Probe Minimal phase shift, for high accuracy power measurements	AC	1 to1000A _{RMS}	Inner dia : 2.13 inch inner dia Outside dimensions: 9 x 4.4 x 1.75 inches Cable length: 2 meters (6.5 feet).	 Accuracy: +/- 0.5% of reading including the accuracy of the PowerSight analyzer, (+/- 0.2 A for currents below 400 amps AC +/- 0.5% of reading +/- 2.0 A for currents from 400 to1000 amps AC)
HA100	High Accuracy Clamp Current Probe 0.1 to 100A, compact probe for limited space	AC	0.1 to 100A	Inside Dia: 0.8 inch diameter Outside dimensions: 5.25 x 2.1 x 1.35 inches Cable length: 2 meters (6 feet).	Accuracy/Linearity: +/- 2% of reading +/- 0.2 A
HA5	High Accuracy Clamp Current Probe 0.02 (20mA to 5A) best choice for measuring very small loads and the outputs of CT (Current Transformer) step-down circuits • compact size for confined spaces • 2 m cable length	AC	0.02 to 5A	Inside diameter: 0.8 inch diameter Outside dimensions: 5.25 x 2.1 x 1.35 inches Cable length: 2 meters (6 feet).	+/- 2% of reading +/- 0.02 A _{RMS}



Product	Features	AC/ DC	Current Range	Max Diameter Opening (inch)	Accuracy (%) Resolution
HA-GFD	 Mostsensitive High Accuracy-Ground Fault Detector Current Probe,5mA Ideal for measuring leakage current and ground faults Large jaw sallow clamping around all three phases to net out the currents and find the leakage current Dual measurement range allows measuring upto 200 amps in high accuracy, so it is useful for all small to mid-size AC loads. 	AC	0.005A to 200A	Inside Diameter: 4.5 inches Cable Length: 2 meters (6 feet).	 Low Range Measurement Accuracy: ±3 from 0.005 to 0.009 amps ±2 from 0.010 to 0.049 amps ±1 from 0.050 to 1.000 amps Hi Range Measurement Accuracy: ±2 from 5 to 8.9 amps ±1 from 9 to 200 amps
DC2000	 AC/ DC Current Probe for large measurement jobs 2m cable length Very large jaws to be able to clamp around large cables and bus bars 	AC/ DC	DC :10 to 2000A AC :10 to 1500A		 ±3% ±1 amp from 10 to 2000 amps DC ±3% ±1 amp from 10 to 1500 amps AC
	 High Accuracy Clamp Current Probe 0.1 to 100A, AC/ DC Current Probe for most industrial DC measurement jobs 2 m cable length large jaws to be able to clamp around large cables and bus bars 	AC/ DC	DC :5to 600A AC :5 to 400	Inside Clamping Capacity: one cable up to 1.18" diameter two cables up to 0.95" diameter Overall Dimensions: 7.68 x 2.6 x 1.34 inches Cable length: 2 meters (6 feet).	 Accuracy (after zeroing): ±1 amp ±2% from 5 to 400 amps DC or AC ±1 amp ±3% from 400 to 600 amps DC



Specifications :

Function	PS3550	PS4550	PS5000		
Basic Measurement Capability	133330	134330	1 3 3 0 0 0		
True 3 Phase		Yes			
	45 - 66 Hz	22-200 Hz			
Frequency Range					
		360 - 440 nz, DC 360-440 Hz, DC			
Basic sampling rate	16µsec		8µsec		
Samples per cycle(@60Hz)	130	2083	2083		
Basic RMS measurement rate	Once per second		every channel		
Measure Distortion Factor		Yes			
Single phase measurements/ Split Phase	Yes				
Three phase wye and delta		Yes			
4 wire delta measurements		Yes			
Open delta measurements		Yes			
AC/DC voltage and current measurement		Yes			
Logging					
Logging Capacity	unlimite	ed with SD card (upto 32	GB)		
Logging variables		61 default			
Logging rate set by user		1second- 99minutes			
Start/Stop at programmed time		Yes			
Max/Min/Ave/Present value of V, A, W, etc.		Yes			
Localized Trending on Meter	No		Yes		
Pause/Resume of Trending	No Yes				
Power Quality			i		
Swell (surge) triggering/ capture	Check each second	-	ycle of every input		
Dip (sag) triggering/capture	Check each second	Check every 1/2 cycle of every input			
Inrush current capture	Check each second	Check every 1/2 cycle of every input			
Swell/Dip/Inrush capacity	View consumption log	Up to 15000 records, standard			
Swell/Dip/Transient triggered waveform capture	No	Up to 100 graphs of 12 cycles, standard			
RMS graph of swell/dip by ½ cycle	No	Up to 2000 graphs of 100 cycles, standard			
Simultaneous measurement of power / harmonics / swell / dip / transients	No	Yes			
High speed transient capture	No	Record every 8usec on every input			
Transient capacity	No	Up to 15000 in log, 100 wavesets			
Harmonics	110				
	1-50th on PC, 25th	1-50th on PC, THD to 50th on meter, THD to	Color Bar Graph on screen		
Harmonics analysis capability	on unit, to the 7th at 400Hz	the 31st at 400Hz on	showing 1-50th, to		
		meter	the 31st at 400Hz		
Harmonics Accuracy	0.5%	0.2	5%		
Measure Total Harmonic Distortion	all channels each second	every cycle of every channel			
Accuracy in measurement of Total Harmonics Distortion		2	,		
Harmonics direction	Yes, in software				
Max Harmonics measurement (Hz)	3000Hz				
Voltage Measurement					
Provision for input ratios for PTs/CTs	Yes				
No. of Voltage Channels	4				
Voltage Range (V)	1 to 1000Vrms Display range : 1-6000 kV (using input ratios)				
Voltage Accuracy (%)	$\pm 0.5\% \text{ of reading } \pm 0.3 \text{ V}_{\text{rms}} \qquad \pm 0.1\% \text{ of reading } \pm 0.3 \text{ V}_{\text{rms}}$		aing ±0.3 V _{rms}		
Direct measure of RMS voltage (V _{rms})	1-1000				
Peak voltage measurement (V)	1500				
DC voltage (Vdc) 1-1000					



Function	PS3550	PS4550	PS5000		
Voltage measurement with standard and optional medium		1-15000			
voltage probes (V _{rms})	1-15000				
Voltage measurement with input ratios (MV _{rms})	0.5-999				
Display resolution (100-400V) (V)		0.1			
Current Measurement					
No. of Current Channels		4			
Current Range – with clamps (A)		, depending on current 6MegaAmps (using inpu			
Current Accuracy (%)	±0.5% of reading plus accuracy of probes	±0.5% of reading plus			
Current Resolution (A)		0.1			
Current Measurement- direct with accessories	0.0	05 – 6000 (A _{rms}) 5-2000	(A _{DC})		
Current measurement with input ratios		1 ma – 999 MA _{rms}			
Current Measurement Accuracy (%)	±0.2		0.1		
Automatic current probe identification and scaling		Yes			
Power Measurement			_		
Max. Power (MW)		9.9			
Setup of power configuration		Automatic			
	±0.5 of reading plus		us accuracy of probes		
Power Accuracy (%)	accuracy of probes				
Power Resolution		1			
	Yes Active power upto 9999kW, Resolution : 0.1 for kW<1, 1 for				
Power Measurement- True, Apparent & Reactive	kW>=1 Reactive Pow	ver upto 9999kVAR Mini	mum Apparent power		
		0.001kVA			
True Power Factor	Yes				
Displacement Power Factor		Yes			
Accuracy in measurement of Power Factor (%)	0.5	0.	.25		
Phasors, magnitude and angle	Displacement angles and V _{ms} /A _{ms} magnitudes with		Color phasors on screen with measurements		
Phase Angle	full range from -179 to +180, with accuracy of 1		accuracy of 1		
Measure Voltage & Current Unbalance	Yes				
Energy Measurement	Yes				
Cost Measurement		Yes			
Memory , Display & Software					
Internal Memory	4M or 16M wit	h MEM2 option	16M		
External Memory		SD Card up to 32 GB			
USB Output		Yes			
Bluetooth	Yes				
Display	Backlit Text, hi-res graphics on PC Color graphics VGA		Color graphics,1/4 VGA		
Analysis Software		PSM-A included			
Multi-lingual	Yes No		No		
Battery	2200 mAH 7.2V Li-ion 110 ~230V AC Adaptor				
Size	3.85" x 7.6" x 1.60" to 2.07"				
Weight (Kg)	0.9				
Operating temperature	0 – 50 °C				
Safety	600V CAT IV, 1000V CAT III, per IEC 61010-1				

STANLAY[™] Asian Contec Ltd.

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