

PA4400A Three Phase AC Power Analyser

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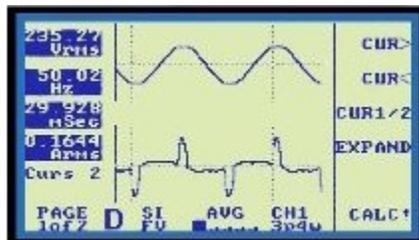
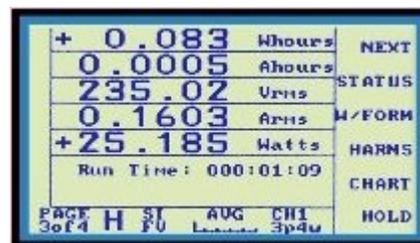
An easy to use and powerful new 3 phase 4 Channel Power Analyser from Powertek



- 500 kHz Bandwidth
- 1440Vpk + 125Apk direct measurements (DC coupled)
- 4 Fully isolated and independently ranged input channels
- Up to 10 readings per second
- Torque/Speed input (option)
- PWM Filter for motor drives
- Flexible wiring configurations 3Ø4w+Torque, 3Ø4w+1Ø, 3Ø3w+3Ø3w etc.
- Harmonics to the 80th
- IEEE-488 and RS232 interfaces
- Integrator function with WHRS, AHRS and elapsed time
- 10 setup memories for storing individual configurations
- Efficiency measurements
- 10 Chart recorder outputs (option)
- Inrush current measurement
- Printout graphics or lists

Multiple Parameter Display

View results on all four channels plus neutral and Sum. Choose between individual channels or all results on one page. Scaling factors may be applied to give correct readouts when using VT and CT. One key access to most display functions.

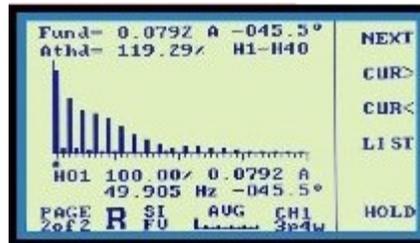


Waveforms + Chart Recorder Functions

View volts, amps and watts waveforms for each channel. Use datacapture to store and analyse transient events. A chart recorder function graphs a selected parameter over time.

Harmonic Analysis

View harmonic lists or bar graphs for all four channels. Amps and volts THD is calculated from the harmonic series. IEC-Test software is available free of charge for harmonics and 3 phase flicker testing to IEC-1000-3-2 and IEC-1000-3-3.



Measurement Function		PA 4400A
Measurement Bandwidth	Range	DC, 0.2Hz to 500kHz
Volts	Display Resolution	4 3/4 digit
	Measurement Range	700mVrms to 1000Vrms (1440Vpk) (200mVrms with display blanking off)
	Vpeak Ranges	1440, 720, 220, 110, 33.0, 16.0, 5.00, 2.50
	Max input volts	1440Vpk Overload 3000Vrms for 1 second
	Accuracy	0.1% Reading +0.1% Range +10mV DC 0.5% Reading +0.5% Range +10mV
	Common mode	90dB
	Input impedance	1Mohm 12pF
Current	Display Resolution	4 3/4 digit
	Measurement Range	0.01Arms to 20Arms (125Apk) Ext Shunt 1mVpk to 4Vpk
	Apeak Ranges	125, 62.5, 22.0, 11.0, 3.50, 1.80, 0.6, 0.3
	Max input amps	20Arms continuous 125Apk
	Accuracy	0.1% Reading +0.1% range +2mA DC 0.5% Reading +0.5% Range +10mA
	Common mode	90dB
	Input impedance	0.02 Ohm
Power	Accuracy	0.1% Reading +0.1% range +2mW
VA	Accuracy	0.1% Reading +0.1% range +2mVA
VAR	Accuracy	0.1% Reading +0.1% range +2mVAR
General Specifications		
Interfaces	Standard	Printer (Centronics)
	Optional	IEEE-488, RS232, Chart Recorder x 10
Environment	Operating Temperature	0° C to +50° C
	Storage Temperature	-40° C to +60° C
	Humidity	10% to 90% RH non-condensing
Dielectric Strength	Inputs to case	4kV AC 50/60Hz for 1 minute
	AC line input to case	2kV AC 50/60Hz for 1 minute
Power	AC line input voltage	90V to 264V
	AC line input frequency	45Hz to 450Hz
	AC line input fuse	20mm 2AT
	Power consumption	25W/40VA
Mechanical	Weight	9.0kg
	Dimensions (W x H x D)	430mm x 144mm x 420mm

Options and description	
PA4400A-3	Three Phase Power Analyser - 3 Channel
PA4400A-4	Three Phase Power Analyser - 4 Channel
PA4400A-3-B	With Blank Front Panel
PA4400A-4-B	With Blank Front Panel
Option 68	Interface Board (use with Option 68A, 68B, 68C)
Option 68A	RS232
Option 68B	IEEE-488
Option 68C	Chart Recorder O/Ps * 10
Option 03	500A PA Series Current Transducer 100:1
Option 04	1000A PA Series Current Transducer 1000:1
Option 06	PA Series Printer Cable
Option 08	RS232 Lead
Option 10	IEEE-488 Cable 2 Metre
Option 22	PA4400A Rack Mounting Kit
Option 25	HV 40kVpk 2000:1 Probe
Option 29	PA4400A-3 Test Lead Set
Option 29A	PA4400A-4 Test Lead Set
Option 30	60A/60mV Shunt 50/60Hz
Option 31	100A/60mV Shunt 50/60Hz
Option 32	150A/60mV Shunt 50/60Hz
Option 33	250A/60mV Shunt 50/60Hz
Option 34	400A/60mV Shunt 50/60Hz
Option 35	600A/60mV Shunt 50/60Hz
Option 43	PA4400A-3 UKAS Certificate
Option 44	3000A Clamp Current Transformer
Option 46	PA Series 1mA to 500mA non inductive shunt
Option 49	1250A/125A:1A (1500A max) 0.2% CT
Option 50	PA4400A-4 Torque/RPM Input
Option 51	Hall Effect sensor 50A Current CT
Option 52	Hall Effect sensor 100A Current CT
Option 53	Hall Effect sensor 200A Current CT
Option 54	Hall Effect sensor 300A Current CT
Option 55	Hall Effect sensor 500A Current CT
Option 56	Hall Effect sensor 1000A Current CT
Option 57	Wiring/Housing for LEM's (PSU not inc.)
Option 58	+ 15V 125mA PSU for Hall Effect CT (no case)
Option 58A	+ 1A PSU for Hall Effect Transducers (cased)
Option 59	Low Impedance Star Point
Option 62	PA4400A Hard Flight Case
Option 63	AVLab 44 for Windows '95, '98
Option 65	DPU-414 Seiko Thermal Printer+ AC PSU
Option 65A	20 Rolls of Paper for Option 65
Option 65B	Battery Pack for DPU-414 Seiko Thermal Printer

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