



No hassle warranty

No waiting.

No shipping charges.

Our commitment to high-quality products and customer service is demonstrated by our industry exclusive "No Hassle" warranty. In the unlikely event that an Amprobe Test Tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.

(note: \$500 MSLP limit)

PQ55A Compact Power Analyzer

A handheld power analyzer for three-phase power system measurements.

The PQ55 offers real time monitoring, recording and analysis of three phase power systems. The complete set includes the handheld mainframe, four current clamp adaptors, test leads with alligator clips, RS232 cable and software CD, large soft carrying case with compartments and users manual.

- Comprehensive real time monitoring, recording and analysis of three phase power systems
- True-rms voltage and current measurement
- Power Factor and phase angle results
- Power Analysis (apparent, active and reactive power)
- Additional current clamp for neutral line monitoring
- Internal memory for 99 single measurement storage
- Opto-isolated RS232 interface for further analysis and charting
- **50** Hertz operation facilities



Data Sheet



PQ55A Compact Power Analyzer

Data Sheet

Specifications (valid for 23	3 °C \pm 5 °C, for less than 70 % relative humidity).		
Voltage measurement	3 input channels with common reference point "N"		
Measurement range	0 to 600 Vrms		
Display range	0 to 999.9 Vrms		
Resolution	0.1V		
Accuracy	± (1% rdg + 10D) for voltage > 80 V		
Mains frequency	50 Hz		
Input impedance	2 MOhm		
Overload protection	1000 Vrms		
Current measurement			
Measurement range	Input I1, I2, I3 3 A to 999.9 A		
	Input I4 3 A to 250 A		
Display range	0 A to 999.9 A		
Resolution	0.1 A		
Accuracy	± (2.5 % rdg +15 D)		
Reduction ratio of current clan			
Clamp opening	40 mm		
Admissible overload	10% (for sinusoidal wave form); max. 30 seconds		
Active power P Display of acti	ive power of individual input or total value, as desired		
Display range 0 to 999.9 kW			
	A negative active power can be recognised by the sign "-".		
Resolution	0.1 kW		
Accuracy (for PF ≥ 0,5)	± (3.5 % rdg + 20 D)		
Accuracy (for PF < 0,5)	± (4.5 % rdg + 40 D)		
	from the rms values of voltage and current) ⁻ an individual input or the total value, as desired		
Display range	0 – 999.9 kVA		
Resolution	0.1 kVA		
Type of connection 1P2W	Accuracy (for $PF \ge 0.5$) $\pm (3.5 \% rdg + 20 D)$		
	Accuracy (for PF < 0,5) ± (4.5 % rdg + 40 D)		
Type of connection 1P3W, 3P3	W, 3P4W		
	Accuracy (for $PF \ge 0.5$) $\pm (3.5 \% rdg + 20 D)$		
	Accuracy (for PF < 0,5) ± (7.5 % rdg + 40 D)		
Idle power Q (calculation out o			
Display range	0 to 999.9 kVAr		
- <u>-</u>	A negative sign "-" shows a leading current.		
Resolution	0.1 kVAr		
Formula	$Q = \sqrt{S^2 - P^2}$		
	t ion out of active and apparent power) individual input or the total value, as desired		
Measurement range	0 +1 A negative sign "-" shows a leading current.		
Resolution	0.001		
Accuracy	± (1 % rdg + 25 D)		
Phase angle (f) (calculation out	of power factor) Display of phase angle of an individual input or the total value, as desired		
Measurement range	0° to 90°		
	A negative sign "-" shows a leading current.		
Resolution	0.1°		
Accuracy	± 4°		
Frequency measurement (for vo	oltage range > 80 V)		
Measurement range	45 to 80 Hz		
Resolution	0.1 Hz		
A			

± (1 % rdg + 10D) for voltage > 80 V

Accuracy



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Data Sheet

Rotary field detection (for c	conductor voltages > 80 V)	
Display for clockwise rotar	y field: 🞮, Display for counterclockwise rotary field: 🛌	
Energy measurement – activ	ve power (kWh) Display of the total value of all active power values	
Accuracy	± (3.5% rdg. + 20D)	
Sampling Rate	1 second	
Range	Resolution	
3.999 kWh	0.001 kWh	
39.99 kWh	0.01 kWh	
399.9 kWh	0.1 kWh	
3.999 MWh	0.001 MWh	
39.99 MWh	0.01 MWh	
119.3 MWh	0.1 MWh	
Energy measurement – app	arent power (kVAh) Display of the total value of all apparent power values.	
Accuracy	± (3.5% rdg. + 20D)	
Sampling Rate	1 second	
Range	Resolution	
3.999 kVAh	0.001 kVAh	
39.99 kVAh	0.01 kVAh	
399.9 kVAh	0.1 kVAh	
3.999 MVAh	0.001 MVAh	
39.99 MVAh	0.01 MVAh	
119.3 MVAh	0.1 MVAh	
Energy measurement – idle	power (kvarh) Display of total values of all idle power values.	
Accuracy	± (3.5% rdg. + 20D)	
Sampling Rate	1 second	
Range	Resolution	
3.999 kvarh	0.001 kvarh	
39.99 kvarh	0.01 kvarh	
399.9 kvarh	0.1 kvarh	
3.999 Mvarh	0.001 Mvarh	
39.99 Mvarh	0.01 Mvarh	
119.3 Mvarh	0.1 Mvarh	
Harmonics measurement	This measurement is only possible via a PC.	
Measurement up to the		
Measurement inputs	U1, U2, U3, I1, I2, I3	
Voltage range	> 80 V	
Current range	> 50 A	
Sampling range	approx. 3 s.	

Technical Data – General Information

Display	multiple function LCD
Refresh rate	approx. 2 seconds
Backlight	automatic-power-off after approx. 30 s
Data logger	512 Kb, non-volatile memory max. 21 000 measurement values, max. 10 measurement series 0max. 10 000 measurement values for on measurement series
Sampling rate (adjustable)	5 seconds, 30 seconds, 1 min, 2 min
Data transfer	via optically isolated RS-232 interface
Manual data memory	Max: 99 measurement



PQ55A Compact Power Analyzer

Technical Data – General Information (continued)

Power supply	8 x 1.5V batteries LR6 (Alkaline)	
Battery life cycle	typ. 50 h	
Auto-power-off (can be switc	hed off) after approx. 30 min	
Internal memory Speicher	1 x 3 V-Lithium battery CR2032	
Battery life cycle	Typ. 2400 h	
Mains adapter	12 - 15 V/300 mA	
Electrical supply voltage	230 VAC (+10 %/-20 %)	
Frequency range	42 to 63 Hz	
Power consumption	approx. 10 VA	
Overvoltage class	CAT III 600 V	
Degree of contamination	2	
Protection	II	
Type of protection	IP 30	
Dimensions (L x W x H)	Measurement instrument Current clamp	235 x 117 x 54 mm 193 x 88 x 40 mm
Weight	Measurement instrument (incl. Batteries) Current clamp	approx. 730 g approx. 335 g
Height above sea level	up to 2000 m	
Service temperature range	0°C to +50°C/ max. 80% rel. humidity, 0°C to +40°C/ max. 80% rel. humidity (mains power supply unit)	
Storage temperature range	-10°C to +60°C/ max. 70% rel. humidity	
Temperature coefficient for the ranges 0°C to +18°C and +28°C to +50°C	0.1/K times the specified accuracy	

Included Accessories

Power Analyzer 4 pieces current clamps 1000 A 4 pieces alligator clips, isolated 4 pieces safety test leads 8 pieces 1.5 V batteries LR6 mains adapter RS-232 cable large carrying bag operation instructions PC software (for Windows ME/2000/XP)



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