

INFRATEK LOW COST 101A GENERAL PURPOSE POWER / ENERGY ANALYZER



The Infratek 101A single- and three phase Power Analyzer is an economical solution for many measurement applications.

Features

- Very low cost
- Unmatched price-performance
- Accuracy 0.15 %
- Connection box for easy hook-up for commercial loads.
- 600mA-60A, 30V-1000V, DC-50kHz
- Single and three phase
- Measures RMS, maximum, power, energy, time, PF, and harmonics.
- Accepts 100A start-up current
- Measure all values simultaneously.
- Displays 6 or 40 values

General Purpose at very low price

The 101A is suitable for measurements on electronically switched loads. Because of its DC-coupling capability correct rms- and power values result at all times. Take the case of line voltage multiplied by half wave rectified current. AC-coupling yields wrong rms current and power, DC-coupling yields correct values.

The 101A is simple to use. In the side menu you select current- and voltage ranges (automatic or manual), synchronization, measurement time, special function "Peak-Hold", and display modes L1, L2, L3, SUM, and ALL (3-phase display).

In the display number fields you can place any measured quantity from the measurement function selection table including harmonics of current and voltage. In the graphics field waveforms and bar graphs of current and voltage can be displayed.

A load connection box is available which connects your single- or three phase load to the Power Analyzer and to the wall power outlet.

Optional RS-232 interface with Windows Operating Software and battery back up for 6 hours autonomous operation is available. It prevents data loss, such as energy data, during power failure.

SPECIFICATIONS

Voltage	4 ranges: Frequency range: Accuracy:	30 V, 100 V, 300 V, 1000 V; max. 600 V DC-50 kHz 10 Hz – 2 kHz, $\pm(0.1 \% \text{ rdg} + 0.1 \% \text{ range})$ 2 kHz – 10 kHz, $\pm(0.8 \% \text{ rdg} + 0.3 \% \text{ range})$
Current	5 ranges: Frequency range: Accuracy:	600 mA, 2 A, 6 A, 20 A, 60 A; max. 40 A continuous, max. 100A, 1 second DC – 50 kHz 10 Hz – 400 Hz, $\pm(0.15 \% \text{ rdg} + 0.15 \% \text{ range})^*$ 400 Hz – 2 kHz, $\pm(1.5 \% \text{ rdg} + 1.0 \% \text{ range})$ *Lowest range multiply percentage figures by 2.
Power	Accuracy:	Add accuracy percentage figures of current and voltage, PF = 0 to ± 1 .
Measured Quantities	Vrms, Vmax, Vpeakhold, Arms, Amax, Apeakhold, power, apparent power, power factor, energy, apparent energy, elapsed time, voltage- and current harmonics n=1 to 20.	
Display	Blue liquid crystal graphic display with EL backlight. Displays values of each phase, total values, or values of all three phases. Displays wave forms and bar graphs.	
Dielectric	Inputs to case, Line input to case: 2 kV/2 kV	
Dimension	H x W x D = 132 x 185 x 267 mm. Weight 2.5 kg, Tilt stand.	
Options	RS-232 Interface and Windows Operating Software (95, 98, NT, 2000, ME, XP). Battery back up for 6 hours operation with built in charger.	
Accessories	Single- and three phase load connection box Carrying case 32A Test leads	



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