UNIWATT Power Harmonics Analyzer

Model: 9002



Features:

- Comprehensive real time monitoring, recording and analysis of three-phase power systems
- True RMS Voltage measurement
- True RMS Current measurement
- Power Factor measurement
- Harmonic Analysis
- Harmonic analysis for voltage and current up to 63rd harmonic
- Power Analysis (apparent, active and reactive power)
- Internal memory of 2MB for long-term measurement
- Serial RS 232 interface for further processing on PC
- Display and graphical indication of current and voltage values
- Minimum, maximum & average value calculations for recorded quantities
- · Internal rechargeable batteries
- Windows software for data analysis and instrument control

Scope of Supply:

1 pc Power Harmonics Analyzer

3 pc Test Probes

6 pc Crocodile Clamps

6 pc Safety Test leads

1 pc Power Link PC-Software

1 pc Mains Cable

1 pc RS-232-Cable

1 pc Soft carrying case for analyzer

1 pc Instruction Manual

Option Order:

3 pc Current-Clamps-Set (Range 20...1000 A)

Technical Data:

Voltage

3 fully differential channels

Display range 10 - 550 Vrms (43 - 68 Hz)

Resolution

Accuracy ± 0,5% of readings, ±2 digits

Crest factor

Current

0.02 V - 1 V / 20 A - 1000 A (current probe) Display range

0.3 mV / 0.3 A Resolution

 \pm 0,5 % of readings \pm 2 digits Accuracy

± 1 % (accuray of standardclamps)

2.5 Crest factor

Computed and DISPLAYED quantities

Waveforms 3 x U, 3 x I

> 3 x (Urms, Uavg, Umax.) 3 x (Irms, lavg, Imax.)

Power factor / Total harmonics distorsion: U, I / Frequency / Crest factor: U, I

Phase sequence / Meter / 3 x Urms, 3 x Irms, Inul / Frequency

P. Q. S (phase & total) Power factor cosp (phase & total)

Spectrum

Harmonics DC...63 (on display DC...25)

percentual and amplitudes for selected quantities

THD, Urms, Irms for selected quantities

RECORDER

1 s - 30 min Integration period Statistics analysis of each period (20 ms)

Voltage anomalies - based on half period (10 ms) and selected window (± Un), configurable recording

registers. Recording of periods (selectable data, parameters).

GENERAL Display

Multimeter

Oscilloscope

Type LCD graphic 160 x 116

display with LED backlight quantities in numerical mode currents & voltage waveforms Harmonics histograms / Configuration and programming menus

Internal memory 2 Mbytes of non-volatile data memory Communication Optoisolated RS 232 serial interface for

connection to PC

2400 - 57600 Baud rate

Power requirements

230 V AC (+10% - 20 %) 42 - 63 Hz Voltage operating range

Power consumption

Ni-Cd rechargeable batteries provides full operation for up to 5 hours

Internal battery charger

Environmental

-10 to +45°C / 14°F - 113°F Operating temperature Storage temperature -25 to +70°C / -13°F - 158°F

Protection class II - double insulation Measurement category CAT III 600 V

Pollution degree

Max. voltage between terminals 600 V Max. Voltage against ground 300 V

Dimensions

Size (H x W x D) 265 x 110 x 185 mm

Weight 2.1 kg