

# Power analysers

## PHA 3300

Article number: 626 000 518

Article number: 626 000 463 (incl. current clamps)



### Power harmonics analyser

The PHA 3300 is an instrument for measuring and analysing single- and three-phase systems in compliance with the European regulation EN 50160.

### Main functions

- Real time monitoring, recording and analysing single- and three phase power supply systems.
- Measuring of a wide range of values, such as True RMS voltage, True RMS current, power / energy (Watt, Var and VA), power factor/ Cos phi, and harmonics.
- Internal memory for storage of data (2Mb)
- Calculation of minimum, average and maximum value for use on standard reports.
- Oscilloscope mode for viewing (real-time) and storing of current and voltage waveforms.
- Harmonics measurements up to the 63rd Realtime and stored.
- Energy monitoring and analysis.
- RS232 serial interface for connection to a PC Windows software for data analysis and instrument controls included.

The power supply of the instrument can be served by a rechargeable battery (max. 5 hours) or mains voltage.

### Profile



# Power analysers



## Including

- + Manual
- + Test leads
- + Alligator clamps
- + Bag
- + Network cable
- + Batteries



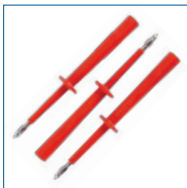
Carrying bag



Adapter



Test leads



Test probes



Alligator clamps



Communication cable, batteries

**PHA 3300 including current clamp adapters**  
(art.no. 626 000 463) has the following accessories as well.



Carrying bag



3 Current clamps, 1000A-1V

Function	Range
Multimeter	Quantities in numerical mode
Oscilloscope	Current and voltages waveforms
Harmonics histograms	
Configuration and programming menus	
Communication	Opto isolated RS 232 serial interface for connection to PC
Baud rate	2400 – 57600

Specifications	
Memory	2Mb eeprom
Overvoltage category	CAT III 600 V
Pollution category	2
Max. voltage between terminals	900V
Max. voltage against ground	550V
Protection degree	IP54
Dimensions	265 x 110 x 185 mm.
Weight	1,76 kg. (excl. batteries)

## Specifications

Function	Range
<b>Voltage</b>	3 fully differential channels
Input voltage	10 - 550Vrms L-N, 900 Vrms L-L
Resolution	0.1 V
Accuracy	± 0.5% of readings ± 2 digits
Frequency	43 - 68Hz
<b>Current</b>	
Display	0.02 V – 1 V / 0.2 A – 3000 A (depending on current clamp type)
Resolution	0.3mV (0.3 A)
Accuracy	± 0.5% of readings ± 2 digits + current clamp accuracy
Permissible overload	50% *sinusoidal current
<b>Computer and displayed quantities scope</b>	
Waveforms	3x U, 3x I 3x (Urms, Uavg, Umax) 3x (Irms, Iavg, Imax)
Power factor, frequency, phase sequence	
THD and Crest factor	U, I
<b>Meter</b>	
3x Urms, 3x Irms, Inul,	
Frequency, cos phi	
P, Q, S	(phase & total)
Power factor	(phase & total)
<b>Spectrum</b>	
Harmonics	DC ... 63 (on display DC ... 25) percentual and absolute amplitudes for selected quantities
THD Urms, Irms	
<b>Recorder</b>	
Integration period	1 sec – 900 sec
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, max. 64 parameters.)	
<b>Power requirements</b>	
Voltage operating	230 Vac (±10% - 20%) (110 Vac on request)
Frequency	42 - 63 Hz
Ni-Cd batteries	provides full operation for up to 5 hours
Battery charger	internal
<b>Display</b>	
Display type	Graphic LCD 160 x 116 display with backlight