

# Power analysers

## PHA 4400

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Article number: 626020028 (incl. calibration)



### Power harmonics analyser

The PHA 4400 is a lightweight, handheld, 3-phase analyser for quick power quality assessment in low and middle voltage systems.

#### Features

- Simultaneous analysis of basic power quality parameters (U, I, P, Q, S, PF)
- Harmonics analysis up to the 50th component
- Phase diagram for 3-phase systems
- Voltage and current
- Voltage events (dip, swells and interrupts) evaluations
- Three current and three voltage inputs
- Lightweight design
- Quick set-up functions

#### Metingen

- TRMS voltage
- TRMS current
- Power (active, reactive, apparent)
- Power factor,  $\cos \varphi$
- Energy (active, reactive, generated, consumed)
- Harmonic analysis up to 50th harmonics, THD measurement
- Phase diagram and unbalance
- Oscilloscope mode on instrument



#### Profiles



## Specifications

Functions	Range
<b>AC voltage input</b>	
Number of inputs	3
Input voltage range	3.0...550.0 V rms L-N (952.0 V rms L-L)
Accuracy	$\pm 1.0\%$ of reading + 0.5 V
Resolution	0.1 V
Sampling rate	1024 samples per 10 periods
<b>AC current input</b>	
Number of inputs	3
Input current range	4...100 A 40...100 A w/ Current clamp A1033
Accuracy	$\pm 2.0\%$ of reading + 0.3 V
Resolution	0.1 A
Sampling rate	1024 samples per 10 sec
<b>Recording</b>	
Integration period	1...1800 s
Max. number of signals	6

Functions	Resolution	Accuracy
<b>Frequency</b>		
45...66 Hz	10 mHz	$\pm 0.5\%$ of reading + 0.02 Hz
0.000...0.999 k	1	
0.00...9.99 k	10	
0.0...999.9 k	100	
<b>Power (W, VA, VAR)</b>		
0.000...0.999 M	1 k	$\pm 3\%$ of reading + 0.02 Hz
0.00...99.99 M	10 k	
0.0...999.9 M	100 k	
0.000...9.999 G	1 M	
0.00...40.00 G	10M	
<b>Power factor, <math>\cos \varphi</math></b>		
0.00...0.39	0.01	$\pm 0.06$
0.40...1.00	0.01	$\pm 0.03$

Specifications	
Display	Graphic LCD with backlight, 160 x 160 dots
COM-port	RS232 and USB
Overvoltage category	CAT III 600 V
IP Protection	IP42
Supply	230 VAC or 6x 1.2 NiMH, rechargeable batteries, type AA
Dimensions	220 x 115 x 900 mm
Weight	0.65 kg

## Including



Carrying bag



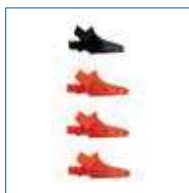
3x current clamp  
30 A / 300 A / 3000 A



Test leads  
3x red, 1x black



Test probes  
3x red, 1x black



Alligator clamps  
3x red, 1x black

- Manual
- Power supply adapter
- RS232-cable
- PowerManager software
- USB-cable
- 6x NiMH rechargeable batteries