



Mains analyser V A W VAR VA COS ϕ THD HARMONICS



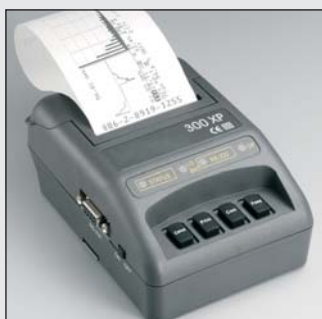
ref. 6830

Supplied accessories

- 3 multiple-rating hook-on ammeters: 1 - 10 - 100A
- 4 measurement leads + crocodile clips
- 1 RS232/USB cable + software + handbook
- 1 mains adapter
- 1 carry case



OPTION THERMAL PRINTER



- With opto isolated lead to the analyser
- Thermal paper roll : width 57mm - length 8m

ref. XP300

ref. XPP

Thermal paper roll more

The 6830 analyser is well suited to taking measurements in both living and educational spaces due to low current ratings (999.9mA) and low power ratings (999.9 W – 999.9VAR – 999.9VA). It is also suitable for industry due to its high ratings, the analysis of 3-wire and 4-wire unbalanced three-phase and single phase networks, the detection of transience, a comprehensive current and voltage analysis, and harmonic distortion. 4 display modes: electrical quantities (35 simultaneous parameters), dual-trace oscilloscope, harmonic analysis and Fresnel diagram.

FUNCTIONS	RANGES	BANDWIDTH	ACCURACY
ACTIVE POWER	999.9 W - 9.999 - 99.99 - 999.9 - 9999 kW	6kHz	1% + 8dgt
REACTIVE POWER	999.9 VAR - 9.999 - 99.99 - 999.9 - 9999 KVAR	6kHz	1% + 8dgt
APPARENT POWER	999.9 VA - 9.999 - 99.99 - 999.9 - 9999 kVA	6kHz	1% + 8dgt
INTENSITY TRMS	999.9 mA - 9.999 - 99.99 A	12kHz	0.5% + 5 dgt
VOLTAGE TRMS	600.0 V	12kHz	0.5% + 5 dgt
POWER FACTOR	0.00 ~ 1.00		0.04
PHASE ANGLE	-180° ~ 180°		1°
Capture of peaks V	600.0 V		5%
Capture of peaks A	999.9 mA - 9.999 - 99.99 A		5%
Crest factor	1.00 à 99.99		5%
	0.0 ~ 20.0 %		1%
THD-F	20.0 ~ 100.0 %		3%
	100.0 ~ 999.9 %		10%

HARMONICS order 1 ~ 100	RANGES	ACCURACY
Measured in / expressed in		as per order
VOLTAGE / In VOLT	600.0 V	2 ~ 6%
VOLTAGE / % of the fundamental	0.0 ~ 100.0%	2 ~ 6%
CURRENT / In mA or A	999.9 mA - 9.999 - 99.99 A	0.2 ~ 35%
CURRENT / % of the fundamental	0.0 ~ 100.0%	0.2 ~ 35%

Networks

- 2- and 3-wire single-phase
- 3- and 4-wire three-phase Balanced or otherwise.

Displayed measurements

- phase-to-ground and composite RMS voltages
- RMS voltage of the neutral/earth
- RMS currents in phases and neutral
- RMS voltages and current peaks
- average current, average voltage
- Power, W, VAR and VA in each phase
- total power W, VAR and VA in the charge
- average power W, VAR and VA
- power peaks W, VAR and VA
- cos ϕ and average cos ϕ
- phase shift of the phase-to-ground and composite voltages
- phase shift of currents in the phases
- consumption WH, VARH and VAH

Harmonics 1 to 99

- RMS currents and voltages of harmonics
- harmonic currents and voltages as a % of the fundamental component
- frequency and distortion of harmonics
- THD-F (total harmonic distortion)
- Imbalance ratio between voltages
- Fluctuation ratio between voltages
- Imbalance ratio between currents
- Fluctuation ratio of currents

Capture of transients

- overvoltages – undervoltages – lack of a phase

Memory capacity

- up to 28 files of transients (from all of the measurements)

- 2.4 MB

Data transfer

- screen files (measurements, harmonics, Fresnel diagrams and transients)
- RS232 – USB optical link.
- Supplied software.

Screen hard copy

- table of measurements, oscillograms, harmonics and Fresnel diagrams

Miscellaneous

- Internal calendar: year-month-day-hour-min-sec
- 106 x 60mm backlit LCD screen
- Dimensions: 25 x 155 x 57mm
- Weight: 1.2kg

