

PQA824 | PQA823 | VEGA78

THREE-PHASE POWER QUALITY ANALYZERS



PQA824, PQA823 and VEGA78 are three-phase and single-phase power analyzers. They allow for the analysis of all electric parameters which can be measured nowadays, elaborating them easily and quickly.

These devices can be easily programmed thanks to the new colour touchscreen display with icon menu, which guarantees the selection of internal parameters in a simple and intuitive way.

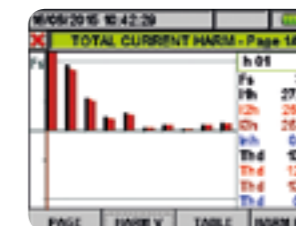
The Help online function available on each screen is a valid and concrete help for the operator in understanding how the devices are used. Each internal parameter is easily reached through the typical tree structure, widely known to Windows system users.

The devices allow displaying the parameters in numerical and graphic mode, both for periodical analysis and for harmonic analysis.

The graphic function "vector diagram" allows, among other things, to immediately evaluate the phase angle between input voltage and current signals, thus defining the loads' nature.

The 15MB internal memory allows saving recorded data for a remarkable number of consecutive days.

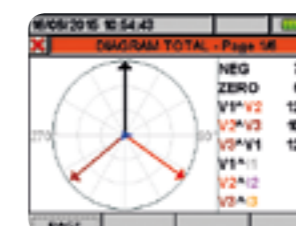
Model PQA824, compared to PQA823 and VEGA78, also allows detecting spikes on input voltages with a minimum resolution of 5µs (200kHz), setting different trigger thresholds which are very useful when solving typical problems on installations (monitoring atmospheric charges, commutations of switching suppliers, disturbance frequencies, etc.)



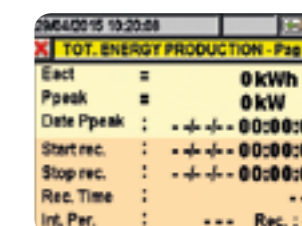
Current harmonics' display in real time



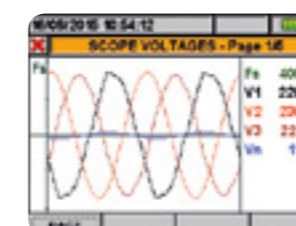
Display of recorded power graph



Voltage and current vector diagram



Energy consumption display



Waveform display (voltage)



General Menu

Functions

- Simultaneous measurement of power parameters on single-phase and three-phase 3-wire and 4-wire systems
- 5 input channels for voltages and 4 input channels for currents
- Numerical and graphic display (waveforms)
- Voltage and current vector diagram
- Voltage and current harmonic analysis up to the 49th with THD%
- Recording of voltage anomalies (dips, peaks) with 10ms resolution
- Flicker analysis in compliance with EN50160 (only PQA823 - PQA824)
- Recording of fast transients (spikes) with resolution 5µs (only PQA824)
- Recording of motor starting currents with resolution 10ms (INRUSH) (only PQA823 - PQA824)
- Voltage unbalance (NEG%, ZERO%)
- Integration period selectable from 1s to 60min
- Preset and custom recordings
- Touchscreen colour display
- Power supply with rechargeable Li-ION battery
- Memory extension with external Compact Flash card
- Possibility of connecting an external pen drive
- PC interface with USB port

Main features

- Display:** TFT, 65536 colours, (320x240pxl) with high contrast, touch screen
- Power supply:** 1x3.7V rechargeable Li-ION battery, with external adapter, duration >3h, auto power of after 5 minutes' idling
- Internal memory:** 15Mbytes (duration approx. 3 months @ IP=15min and 251 selectable parameters)
- Memory extension:** external Compact Flash card (ca. 32Mb)
- PC interface:** USB 2.0
- Safety:** IEC/EN61010-1
- Insulation:** double insulation
- Measurement category:** CAT IV 600V (Phase - Neutral) CAT IV 1000V (between inputs) EN50160
- Power quality and Flicker:** EN61000-4-30, class B
- Electric energy quality:** EN61000-4-7, EN50160
- Unbalance:** EN61000-4-7, EN50160
- Size:** 235x165x75mm
- Weight (battery included):** approx 1kg

Accessories provided

HTFLEX33E	Flex clamp 3000A, diameter 174mm, 4 pieces
KIT800	Set of 5 cables + alligator clips
A0055	AC/DC battery charger power supply 230V 50/60Hz*
YABAT0003HT1	Rechargeable 3.7V Li-ION battery
PT400	Touch-screen pen
TOPVIEW2007	Windows software + USB cable
VA500	Rigid Soft carrying bag
	User manual on CD-ROM
	Quick user guide
	ISO9000 calibration certificate

(* Please check accessory line to find the correct power adapter for your country)

Optional accessories

HTFLEX35	Flex 3000A AC clamp, diameter 274mm
HT96U	Standard 1-100-1000A AC clamp, diameter 54mm
HT97U	Standard 10-100-1000A AC clamp, diameter 54mm
HT98U	Standard 1000A DC clamp, diameter 50mm
HP30C2	Standard 200-2000A AC clamp, diameter 70mm
HP30C3	Standard 3000A AC clamp, diameter 70mm
HT4005N	Standard 5-100A AC clamp, diameter 20mm
HT903	3x1-5A/1V box for external TA connection
A0056	External power supply 110VAC-60Hz /12VDC
CF800	1GB Compact Flash Card
MCR800	Compact flash card reader
606-IECN	Connector with magnetic terminal
SP-0400	Set of straps for slinging the instrument over one's shoulder