

## TPQA820

Waterproof, Self-Powered Three-Phase Power Quality Analyzer With Usb And Wi-Fi Communication Interface

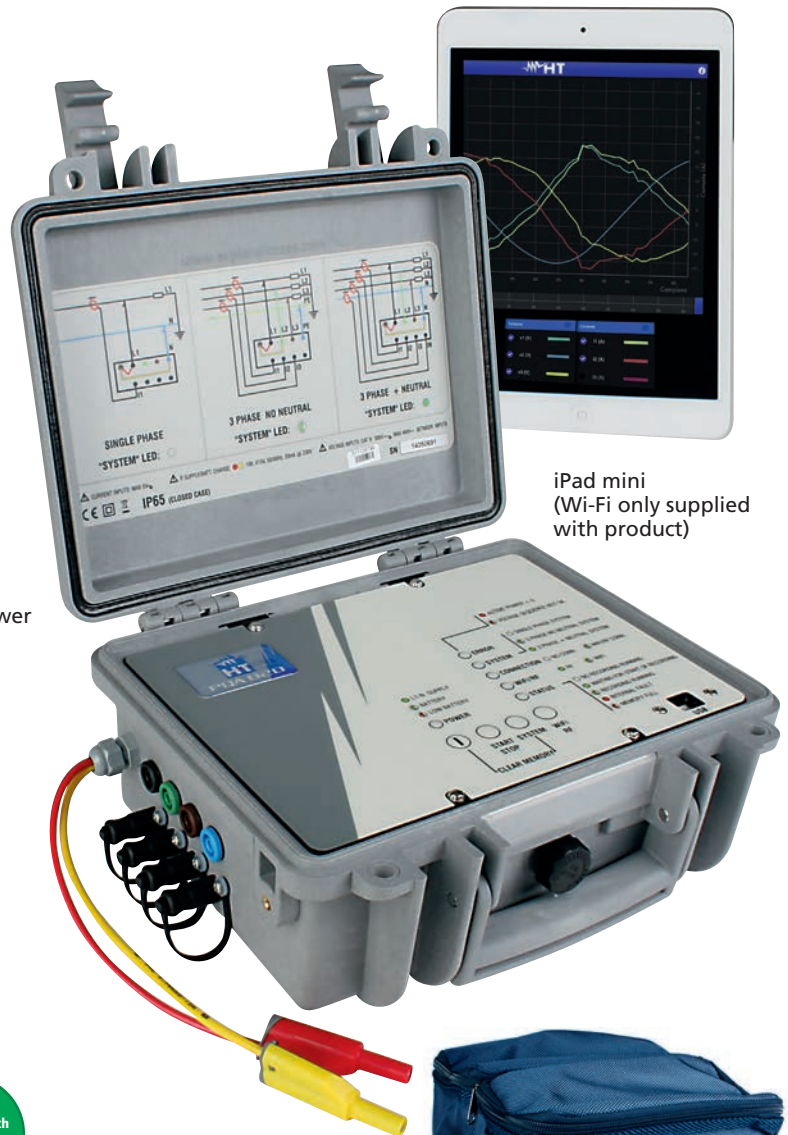
TPQA820 is a power quality analyzer performing an easy and wide analysis of the most significant parameters of the electrical system. Thanks to an innovative project, the instrument can be interfaced to smart phones, tablets and PDAs (iOS and/or Android) meeting the requests of the most demanding professionals. All the electrical parameters can be displayed in both numerical and graphical mode, by waveforms, histograms and phasors. The vector diagram shows the phase angle between any voltage and the related current, revealing the inductive or capacitive nature of the loads connected. The large built-in memory allows to log up to 383 parameters, granting a recording lasting more than one month with an integration period of 10 minutes. TPQA820 records all parameters by default so avoiding any failure. The user will never miss recording the parameters he needs, since TPQA820 records everything while selecting one of the three predefined settings (single phase, 3-phase without neutral, 3-phase with neutral). TPQA820 is powered by an internal rechargeable Li-Ion battery with a built-in user-selectable L-N or L-L power supply. The Wi-Fi and the USB interfaces grant connection to smart phones, tablets, PDAs and PCs for instrument setting, recording start and stop, data downloading, and data analysis. Its IP65 waterproof hard carry case allows TPQA820 to work outdoors under critical environmental conditions.

### Functions

- DC voltage
- TRMS voltage with 4 inputs for line(s) and neutral (if any)
- DC current
- TRMS current with 4 inputs for line(s) and neutral (if any)
- DC power
- Active, reactive and apparent power and energy
- Power factor and  $\cos\phi$
- Frequency
- Up to 383 parameters to be recorded at once
- Integration period selectable from 5 seconds to 60 minutes
- Voltage and current harmonic analysis up to the 49th order
- Voltage anomalies (sags, swells) with 10ms resolution
- Numerical data analysis (DMM function)
- Graphical display of voltage and current (scope)
- Harmonic histogram
- Vectorial diagram of voltages and currents
- Voltage unbalance
- Predefined recording settings
- Built-in memory for data logging
- Wi-Fi and USB interfaces
- Android/iOS/Windows software
- Rechargeable Li-Ion battery with built-in power supply
- Waterproof IP65 hard carrying case

### MODEL SPECIFICATIONS

Internal supply:	Li-Ion rechargeable with built-in power supply, duration 1h
Mains supply:	100 ÷ 415V, 50/60Hz
Internal memory:	8MB (approx. 30 days @ IP = 10min max parameters)
PC interface:	USB 2.0
Remote device interface:	Wi-Fi communication
Remote device interface:	Tablet/Smart phone (iOS, Android)
Safety:	IEC/EN61010-1
Insulation:	double insulation
Measurement category:	CAT III 300VAC (to ground) Max 460V between inputs
Dimensions (LxWxH):	245x210x110mm
Weight (battery included):	Approx. 0.7kg



iPad mini  
(Wi-Fi only supplied with product)

CAT IV  
460V  
IEC61010-1

Meter  
Supplied With  
Calibration  
Certificate

IP65



TPQA820 is built in a tough and strong casing making it suitable for any environmental condition.

Application video



<http://www.hellermanntyton.co.za/downloads.html>

TPQA820

Accessories

iPad mini

Flexible transducer for 0÷100A,  
0÷1000A AC current 174mm diameter, 4 pcs (TFLEX33L)

Set of 4 cables 2m

Set of 4 alligator clips

Magnetic adaptor for connection  
to screw heads, 4 pieces (TMAGCON)

TOPVIEW2007 - Windows software + USB cable

Carrying bag for accessories

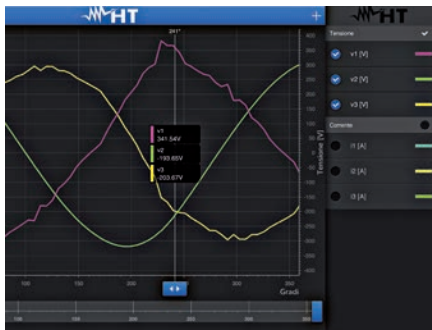
ISO9000 calibration certificate

Quick reference guide

User manual on CD-ROM

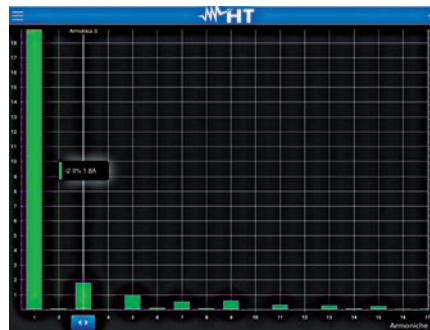


Includes:  
TOPVIEW2007 - C2007  
USB Cable and Software

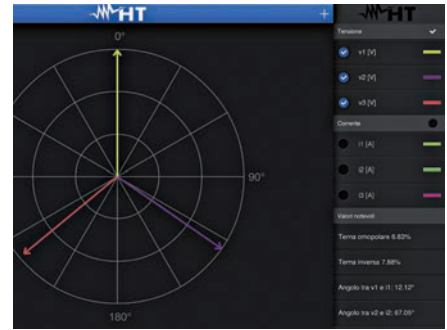


REAL-TIME

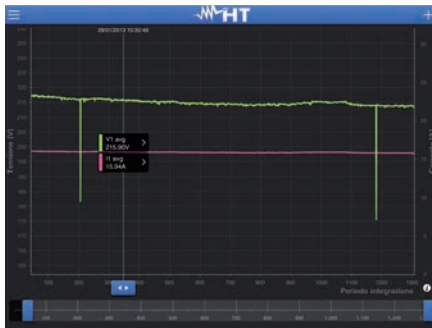
Instrument configuration through tablet or smartphone. Quick and detailed display of all waveforms.



Quick and detailed display of all harmonics relative to the selected quantities.

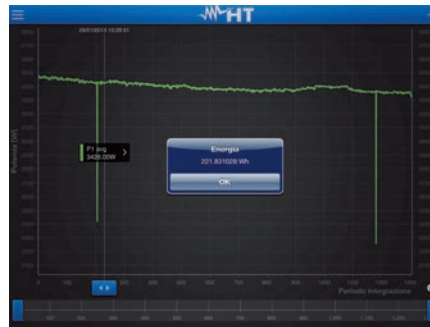
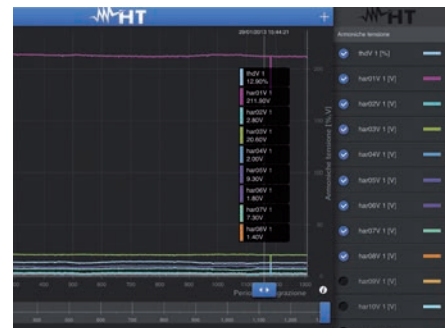


Real time vector diagrams (phasors), DMM function and THD%.



RECORDING OUTCOME

Zoom and quick access to any part of the recording, harmonic analysis at any quantity just through one touch. Trend of all recorded quantities selectable through menu can be displayed, such as frequency, voltages and currents, powers, cosphi, THD%, harmonics up to 49th order and THD%. Fault tracing and maintenance have never been so easy.



ENERGY CONSUMPTION

PQA820 can record all active, reactive and apparent powers over a long period, compare all of them with quantities such as cosφ, harmonics and THD%. Thanks to dynamic App HTanalysis it will be easy to find an immediate solution to energy-waste problem.