

PQA820

Rel. 1.01 of 12/09/13

Power quality recorder

Pag 1 of 2

1 - ELECTRICAL SPECIFICATIONS (*)

Accuracy indicated as ± [%rdg + (no. dgts * resolution)] at 23°C ± 5°C, <80%HR

Δ	C TRI	MS Vol	tage - P	hase to	Neutral
/a\	\cup		tauc – i	แนวษ เบ	างธนนเลเ

Range [V]	Frequency [Hz]	Resolution [V]	Accuracy
10.0 ÷ 265.0	42.5 ÷ 69.0Hz	0.1	\pm (0.5% rdg + 2dgt)

Max Crest Factor =1.5

AC TRMS Voltage – Phase to Phase

rio il timo follage	, i ilaco to i ilac	nace to i nace			
Range [V]	Frequency [Hz]	Resolution [V]	Accuracy		
50.0 ÷ 460	42.5 ÷ 69.0Hz	0.1	±(1.0%rdg + 5dgt)		

Max Crest Factor =1.5

Range [V]	Resolution	Resolution	Accuracy	Accuracy
	Voltage [V]	Time	Voltage	[ms]
15.0 ÷ 265.0	0.2	10ms	\pm (1.0%rdg + 2dgt)	± ½ cycle

AC TRMS Current by external clamp transducer – STD clamps

Range [mV]	Frequency [Hz]	Resolution [mV]	Accuracy
5.0 ÷ 219.9	40 F . CO OLI-	0.1	±(0.5%rdg + 0.06%FS)
220.0 ÷ 999.9	42.5 ÷ 69.0Hz	0.5	±(0.5% rdg)

AC TRMS Current by external clamp transducer – Flex (100A AC range – 85uV/A)

Range [A]	Resolution [A]	Accuracy
1.0 ÷ 99.9	0.1	$\pm (0.5\% \text{ rdg} + 0.7\text{A})$

Max Crest Factor =1.5

AC TRMS Current by external clamp transducer – Flex (1000A AC range – 85uV/A)

AO IIIMO OUITCII	t by Catchian Clair	ip transducer Trex (1000A AC range 050V/A)
Range [A]	Resolution [A]	Accuracy
5 ÷ 999	1	$\pm (0.5\% \text{ rdg} + 1.5\text{A})$

Max Crest Factor =1.5

Power/Energy – (Vmeas>200v, Pf=1 for Active P. Pf=0 for Reactive P.)

Clamp FS [A]	Range [W] [VAr] [VA] [Wh]	Resolution [W] [VAr] [VA] [Wh]	Accuracy
1< FS ≤ 10	0.000k ÷ 9.999k	0.001k	
1< 12 > 10	10.00k ÷ 99.99k	0.01k	\pm (0.7%rdg + 3 dgt)
10 50 1000	0.00k ÷ 99.99k	0.01k	(Imis < 10%FS)
10< FS ≤ 200	100.0k ÷ 999.9k	0.1k	±(0.7%rdg)
200< FS ≤ 1000	0.0k ÷ 999.9k	0.1k	(Imis ≥ 10%FS)
2004 F3 \(\) 1000	1000k ÷ 9999k	1k	(

Vmeas = Voltage Measured, Imeas = Current Measured, Active energy: Class 2 EN61036, Reactive Energy: Class 3 IEC1268

Power factor (Cosφ)

Range (cosφ)	Resolution	Accuracy (°)
0.20 ÷ 0.50		0.6
0.50 ÷ 0.80	0.01	0.7
0.80 ÷ 1.00		1.0

Harmonics (Real time values available only up to 32th harmonics)

Range Maximum resolution		Base accuracy
DC ÷ 25 th		±(5.0% rdg + 2dgt)
$26^{th} \div 33^{th}$	0.1V / 0.1A	±(10% rdg + 2dgt)
$34^{th} \div 49^{th}$		±(15% rdg + 2dgt)

Harmonics will be zeroed

- DC harmonics: DC value <2% 1st Harmonic value or if DC value < 0,2% Clamp FS
- 1st Harmonic: 1st Harmonic value < 0,2% Clamp FS</p>
- 2nd ÷ 49th Harmonics: 2nd ÷ 49th values <2% 1st Harmonic value or < 0,2% Clamp FS

HT ITALIA srl

Tel: +39-0546-621002 - Fax: +39-0546-621144 email: export@htitalia.it - web: http://www.ht-instruments.com



PQA820

Rel. 1.01 of 12/09/13

Power quality recorder

Pag 2 of 2

ELECTRICAL SYSTEMS

- Single Phase,
- 3 Phase without Neutral
- 3 Phase with Neutral

CHANNELS RECORDED SIMULTANEOUSLY

- Phase to Neutral and Phase to Phase voltages
- Voltage anomalies (sags, swells, breaks)
- Phase currents, neutral current
- Voltages and currents harmonics (DC,1,2,...49)
- Phase and Total Active, Reactive, Apparent power
- Phase and Total Power factor and Coso
- Phase and Total Active energy (Class 2 EN61036), Reactive energy (Class 3 IEC1268)
- All channels concerning Powers, Pf, cosφ and Harmonics are automatically managed as generated and consumed.

Max N of pararmeters recorded: 383
 Max number of voltage anomalies: 65530
 Integration Period: 5 ÷ 3600 sec.

- Recording autonomy: > 30 days with integrated period of 10 minutes

- Memory capacity: 8Mbyte

POWER SUPPLY:

Internal rechargeable battery: Li-ION battery, battery life approx. 1 hour

External power supply: By mean Red/Yellow plugs, 100V ÷ 415V, 50/60Hz

COMMUNICATION INTERFACE

PC (Windows), Tablet/Smartphone(iOS, Android): USB (PC only) / WiFi

MECHANICAL FEATURES:

Dimensions (L x W x H): 245 x 210 x 110mm

Weight: 1.5kg

WORKING ENVIRONMENTAL CONDITIONS:

POWER/ENERGY MEASUREMENTS REFERENCE GUIDELINES:

Features of voltage supplied by public utilities: EN50160 (flicker and frequency analysis not performed)

Active energy static counters for AC current EN61036 (Class 2) Reactive energy static counters for AC current IEC1268 (Class 3)

GENERAL REFERENCE GUIDELINES:

Safety of measuring instruments: IEC/EN61010-1 Insulation: double insulation

Pollution degree: 2

Encapsulation: IP65 (case board closed)

Measurement category: CAT III 300VAC to ground, max 460V between Inputs

Max height of use: 2000m

This instrument complies with the prescriptions of the European directive on low voltage 2006/95/EEC (LVD) and EMC directive 2004/108/EEC

(*) Technical specifications are subject to change without notice

Tel: +39-0546-621002 - Fax: +39-0546-621144

nza (RA)- Italy email: export@htitalia.it - web: http://www.ht-instruments.com