



## 1. ELECTRICAL SPECIFICATIONS – LEAKAGE, AUX SECTION

Accuracy is indicated as  $\pm$  (% readings + no. of digits\*resolution) at 23 °C  $\pm$  5 °C, <80%RH

### LEAKAGE - Leakage current (by HT96U optional clamp transducer)

FS clamp AC (A)	Resolution	Accuracy
1	0.1mA	$\pm(1.0\%rdg + 20dgt)$
1 < FS <10	0.01A	
10 $\leq$ FS <100	0.1A	
100 $\leq$ FS <1000	1A	

### AUX - Environmental parameters (with optional probes)

Parameter	Range	Resolution	Accuracy
Temperature [°C]	-20°C $\div$ 80°C	0.1 °C	$\pm(2.0\%rdg+2dgt)$
Temperature [°F]	-4°F $\div$ 176°F	0.1 °F	
Relative humidity [%RH]	0 $\div$ 100%RH	0.1%RH	
DC output voltage	0.1mV $\div$ 1.0V	0.1mV	
Illuminance [Lux] (* Accuracy of HT53 lux probe is according to Class AA)	0.001Lux $\div$ 20.00 Lux (*)	0.001 $\div$ 0.02 Lux	
	0.1 Lux $\div$ 2000 Lux (*)	0.1 $\div$ 2 Lux	
	1 Lux $\div$ 20 kLux (*)	1 $\div$ 20 Lux	





## 2. ELECTRICAL SPECIFICATIONS – PQA SECTION

### AC TRMS Voltage (L-N)

Range [V]	Resolution [V]	Accuracy
15.0 ÷ 380.0	0.1V	±(1.0%rdg + 1dgt)

Allowed crest factor: ≤ 1,5 ; Frequency: 42 ÷ 69.0 Hz

Connection to external TV: TV ratio selectable in the range 30 ÷ 3000

### AC TRMS Voltage (L-L)

Range [V]	Resolution [V]	Accuracy
15.0 ÷ 660.0	0.1V	±(1.0%rdg + 1dgt)

Allowed crest factor: ≤ 1,5 ; Frequency: 42 ÷ 69.0 Hz

Connection to external TV: TV ratio selectable in the range 30 ÷ 3000

### Frequency

Range [Hz]	Resolution [Hz]	Accuracy
DC, 42 ÷ 69.0	0.01	±(2.0%rdg + 2dgt)

Allowed voltage: 15.0 ÷ 660V ; Allowed current: 5%FS clamp ÷ FS clamp

### DC/ AC TRMS Current (STD clamp)

FS clamp	Range [A]	Resolution [A]	Accuracy
≤ 10A	5% FS ÷ 9.99	0.01	±(1.0%rdg + 3 dgt)
10A ≤ FS ≤ 300	5% FS ÷ 299.9	0.1	
300A ≤ FS ≤ 3000	5% FS ÷ 2999	1	

Range: 5 ÷ 999.9 mV; Values under 5mV are zeroed

Allowed crest factor: ≤ 3; Frequency: 42 ÷ 69.0 Hz

### AC TRMS Current (FLEX clamp – 300A AC)

Range [mV]	Frequency [Hz]	Resolution	Accuracy	Overload protection
0.085 ÷ 85.0	42 ÷ 69.0	8.5µV	±(0.5%rdg+0.17%FS)	10V

Allowed crest factor ≤3, Values under 1A are zeroed

### AC TRMS Current (FLEX clamp – 3000A AC)

Range [mV]	Frequency [Hz]	Resolution	Accuracy	Overload protection
0.425 ÷ 255.0	42 ÷ 69.0	85µV	±(0.5%rdg+0.17%FS)	10V

Allowed crest factor ≤3, Values under 10A are zeroed

### DC Power

FS clamp	Range [kW]	Resolution [kW]	Accuracy
≤ 10A	0.000 ÷ 9.999	0.001	±(2.0%rdg + 7dgt)
	10.00 ÷ 99.99	0.01	
10A ≤ FS ≤ 200	0.00 ÷ 99.99	0.01	
	100.0 ÷ 999.9	0.1	
200A ≤ FS ≤ 1000	0.0 ÷ 999.9	0.1	
	1000 ÷ 9999	1	

### Active power (@ 230V, I > 5%FS, cosφ ≥ 0.5, f=50.0Hz)

FS clamp	Range [kW]	Resolution [kW]	Accuracy
≤ 10A	0.000 ÷ 9.999	0.001	±(2.0%rdg + 7dgt)
	10.00 ÷ 99.99	0.01	
10A ≤ FS ≤ 200	0.00 ÷ 99.99	0.01	
	100.0 ÷ 999.9	0.1	
200A ≤ FS ≤ 1000	0.0 ÷ 999.9	0.1	
	1000 ÷ 9999	1	
1000A ≤ FS ≤ 3000	0 ÷ 9999	1	



**Reactive power (@ 230V, I >5%FS, cosφ<0.9, f=50.0Hz)**

FS clamp	Range [kVAr]	Resolution [kVAr]	Accuracy
≤ 10A	0.000 ÷ 9.999	0.001	±(2.0%rdg + 7dgt)
	10.00 ÷ 99.99	0.01	
10A ≤ FS ≤ 200	0.00 ÷ 99.99	0.01	
	100.0 ÷ 999.9	0.1	
200A ≤ FS ≤ 1000	0.0 ÷ 999.9	0.1	
	1000 ÷ 9999	1	
1000A ≤ FS ≤ 3000	0 ÷ 9999	1	

**Power factor / cosφ (@ 230V, I >5%FS)**

Range	Resolution	Accuracy
0.70c ÷ 1.00 ÷ 0.70i	0.01	±(2.0%rdg + 3dgt)

**Voltage harmonics (@ 230V in 1Ph systems, 400V in 3Ph systems)**

Range [%]	Resolution [%]	Order	Accuracy
0.1 ÷ 100.0	0.1	DC, 01 ÷ 49	±(5.0%rdg + 5dgt)

Frequency of fundamental: 42 ÷ 69.0 Hz

Harmonics are zeroed at the below conditions:

- DC : DC value <0.5% fundamental value or DC value < 1.0V
- 1° Harmonic: value of 1° Harmonic < 15V
- 2nd ÷ 49th Harmonics: harmonic value <0.5% fundamental value or if value < 1.0V

**Current harmonics**

Range [%]	Resolution [%]	Order	Accuracy
0.1 ÷ 100.0	0.1	DC, 01 ÷ 49	±(5.0%rdg + 5dgt)

Frequency of fundamental: 42 ÷ 69.0 Hz

Harmonics are zeroed at the below conditions:

- DC : DC value <0.5% fundamental value or DC value < 0.5%FS clamp
- 1° Harmonic: value of 1° Harmonic < 0.5%FS clamp
- 2nd ÷ 49th Harmonics: harmonic value <0.5% fundamental value or if value < 0.5%FS clamp

**Voltage anomalies (L-N, L-PE)**

Range [V]	Resolution [V]	Resolution [ms]	Accuracy [V]	Accuracy [ms]
15.0 ÷ 380	0.2	20ms	±(1.0%rdg + 2dgt)	± 1cycle

**Voltage anomalies (L-L)**

Range [V]	Resolution [V]	Resolution [ms]	Accuracy [V]	Accuracy [ms]
15.0 ÷ 660	0.2	20ms	±(1.0%rdg + 2dgt)	± 1cycle





## 3. GENERAL SPECIFICATIONS

### DISPLAY AND MEMORY:

Features:	TFT, touch screen, color graphic LCD, 320x240mm
Memory AUX, LEAKAGE section:	999 locations, 3 marker levels
Memory PQA section:	8MB (not expanded)
Communication:	Optical-USB and built-in WiFi
Aggregation time (IP) PQA feature:	2s ÷ 30min selectable
Parameters saved PQA feature:	approx. 600
Recording autonomy PQA feature:	approx. 30days (@IP=10min, all parameters)

### POWER SUPPLY:

Batteries:	6 x 1.2V(rechargeable) type AA or 6 x 1.5V type AA
Recording autonomy:	approx 43 days (IP=15min) approx 2 days (IP=1min) approx 2 hours (IP=2s)
Recharging time:	approx. 12 hours
External charger:	100-240VAC, 50/60Hz / 15VDC, CAT IV 300V
Auto Power OFF:	after 5 min of idleness (disabled)

### MECHANICAL FEATURES:

Dimensions (L x W x H):	225 x 165 x 75mm (9 x 6 x 3in)
Weight (included batteries):	1.2kg (42 ounces)
Mechanical protection:	IP40

### WORKING ENVIRONMENTAL CONDITIONS:

Reference temperature:	23°C ± 5°C (73°F ± 41°F)
Working temperature:	0°C ÷ 40°C (32°F ÷ 104°F)
Allowed relative humidity:	<80%RH
Storage temperature:	-10°C ÷ 60°C (14°F ÷ 140°F)
Storage humidity:	<80%RH
Max height of use:	2000m (6562ft)

### GENERAL REFERENCE STANDARDS:

Safety of measuring instruments:	IEC/EN61010-1, IEC/EN61010-031, IEC/EN61010-2-032
Product type standard :	IEC/EN61557-1
EMC :	IEC/EN61326-1
Technical documentation :	IEC/EN61187
Insulation :	double insulation
Pollution degree:	2
Measurement category:	CAT IV 300V to ground, CAT III 350V to ground max 600V between inputs

### TEST VERIFIES REFERENCE STANDARDS:

Power quality:	EN50160
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**This instrument complies with the requirements of the European Low Voltage Directives 2014/35/EU (LVD) and EMC 2014/30/EU and Directive RED 2014/53/EU**

**This instrument complies with the requirements of the European 2011/65/EU (RoHS) and with the requirements of the European 2012/19/EU (WEEE)**



# Diensten van EURO-INDEX

EURO-INDEX is fabrikant, importeur en distributeur van diverse A-merken op het gebied van test- en meetinstrumenten. Daarnaast leveren wij een groot aantal diensten om het gebruik van deze instrumenten in uw bedrijfsvoering te optimaliseren. Dit omvat uiteraard onderhoud, reparatie en kalibratie van de instrumenten, maar ook kennisdeling via de EURO-INDEX Academy en verhuur van instrumenten.

## Geautoriseerd Service Centrum

EURO-INDEX b.v. is van alle vertegenwoordigde merken een Geautoriseerd Service Centrum. Dit betekent dat uw instrumenten worden behandeld door technici die zijn opgeleid door de fabrikant en beschikken over de juiste gereedschappen en software. Er worden uitsluitend originele onderdelen toegepast en de garantie van uw instrument, evenals de certificering (ATEX, EN50379, etc.) blijven intact.

## Kalibratielaboratorium

Ons moderne service- en kalibratielaboratorium beschikt over een RvA accreditatie naar NEN-EN-ISO/IEC 17025. Deze accreditatie geldt voor grootheden, zoals gespecificeerd in de scope bij accreditatienummer K105.



Kijk voor een overzicht van al onze diensten op [euro-index.nl/diensten](http://euro-index.nl/diensten)



## Mobiele Service

Naast de vaste kalibratielaboratoria in Capelle aan den IJssel en Zaventem beschikken wij ook over laboratoria op wielen met de naam "Mobiele Service". Dit biedt vertrouwde service en kwaliteit, bij u voor de deur!

## KWS®

KWS® is een uniek servicesysteem voor uw meetinstrumenten met periodiek onderhoud en kalibratie tegen vaste, lage kosten. Uw kalibratiecertificaten zijn digitaal beschikbaar via Mijn KWS (gratis webportaal en app).

## Verhuur van meetinstrumenten

- Uitgebreid assortiment
- Nauwkeurigheid aantoonbaar door actueel kalibratiecertificaat
- Deskundig advies
- Complete levering inclusief accessoires

## EURO-INDEX Academy

- Trainingen (individueel en klassikaal)
- Cursussen en workshops
- Demonstratie- en instructievideo's
- Whitepapers



Servicebalie



Onderhoud, reparatie en kalibratie



Cursussen en workshops



Mobiele Service

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