



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	$\pm(1.0\%rdg + 1dgt)$

Allowed crest factor: $\leq 1,5$; 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	$\pm(1.0\%rdg + 1dgt)$

Allowed crest factor: $\leq 1,5$; 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	$\pm(2.0\%rdg + 2dgt)$

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
$\leq 10A$	5% FS ÷ 9.99	0.01	$\pm(1.0\%rdg + 3 dgt)$
$10A \leq FS \leq 300$	5% FS ÷ 299.9	0.1	
$300A \leq FS \leq 3000$	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	8.5 μ V	$\pm(0.5\%rdg+0.17\%FS)$	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	85 μ V	$\pm(0.5\%rdg+0.17\%FS)$	10V

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

DC Power

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

Active power (@ 230V, $I > 5\%FS$, $\cos\phi \geq 0.5$, $f=50.0Hz$)

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



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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



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Naast de vaste kalibratielaboratoria in Capelle aan den IJssel en Zaventem beschikken wij ook over een laboratorium 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. Via een gratis webportal (mijnkws.nl) heeft u altijd en overal beschikking over uw kalibratiecertificaten.

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
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Servicebalie



Onderhoud, reparatie en kalibratie



Cursussen en workshops



Mobiele Service

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