

**1 - ELECTRICAL SPECIFICATIONS**Accuracy indicated as \pm [%rdg + (no. dgts * resolution)] at 23 °C \pm 5 °C, <75%HR**DC Voltage**

Range [V]	Resolution [V]	Accuracy
10.0 ÷ 265.0	0.1	$\pm(0.7\% \text{rdg} + 0.4\text{V})$

Voltage values <10.0V are zeroed

AC TRMS Voltage – Phase to Neutral

Range [V]	Frequency [Hz]	Resolution [V]	Accuracy
10.0 ÷ 265.0	42.5 ÷ 65.0	0.1	$\pm(0.5\% \text{rdg} + 0.2\text{V})$

Max Crest Factor =1.5, Voltage values <10.0V are zeroed

AC TRMS Voltage – Phase to Phase

Range [V]	Frequency [Hz]	Resolution [V]	Accuracy
50.0 ÷ 460	42.5 ÷ 65.0	0.1	$\pm(1.0\% \text{rdg} + 0.2\text{V})$

Max Crest Factor =1.5, Voltage values <10.0V are zeroed

DC TRMS Current by external clamp transducer – STD clamps

Range [mV]	Resolution [mV]	Accuracy	Overload protection
5.0 ÷ 219.9	1	$\pm(0.7\% \text{rdg} + 1\text{mV})$	10V
220.0 ÷ 999.9		$\pm 0.7\% \text{rdg}$	

Current values correspondent to a voltage < 5mV are zeroed

AC TRMS Current by external clamp transducer – STD clamps

Range [mV]	Frequency [Hz]	Resolution [mV]	Accuracy	Overload protection
5.0 ÷ 219.9	42.5 ÷ 65.0	1	$\pm(0.5\% \text{rdg} + 0.6\text{mV})$	10V
220.0 ÷ 999.9			$\pm 0.5\% \text{rdg}$	

Current values correspondent to a voltage < 5mV are zeroed

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

Range [mV]	Frequency [Hz]	Resolution	Accuracy	Overload protection
0.085 ÷ 8.50	42.5 ÷ 65.0	8.5 μ V	$\pm(0.5\% \text{rdg} + 0.007\text{mV})$	10V

Max Crest Factor =1.5, Current values <1A are zeroed

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

Range [mV]	Frequency [Hz]	Resolution	Accuracy	Overload protection
0.425 ÷ 85.0	42.5 ÷ 65.0	85 μ V	$\pm(0.5\% \text{rdg} + 0.15\text{mV})$	10V

Max Crest Factor =1.5, Current values <5A are zeroed

Frequency

Range [Hz]	Resolution [Hz]	Accuracy
42.5 ÷ 65.0	0.1	$\pm(0.2\% \text{rdg} + 0.1\text{Hz})$

DC Power – (Vmeas>200V)

Clamp FS [A]	Range [W] [Wh]	Resolution [W] [Wh]	Accuracy
1 < FS \leq 10	0.000k ÷ 9.999k	0.001k	$\pm(1.0\% \text{rdg} + 5\text{W})$
	10.00k ÷ 99.99k	0.01k	$\pm(1.0\% \text{rdg} + 50\text{W})$
10 < FS \leq 200	0.00k ÷ 99.99k	0.01k	$\pm(1.0\% \text{rdg} + 50\text{W})$
	100.0k ÷ 999.9k	0.1k	$\pm(1.0\% \text{rdg} + 500\text{W})$
200 < FS \leq 1000	0.0k ÷ 999.9k	0.1k	$\pm(1.0\% \text{rdg} + 0.5\text{kW})$
	1000k ÷ 9999k	1k	$\pm(1.0\% \text{rdg} + 5\text{kW})$

Vmeas = Voltage in which the power is measured

**Power/Energy – (Vmeas>200V, Pf=1)**

Clamp FS [A]	Range [W] [Wh]	Resolution [W] [Wh]	Accuracy
1 < FS ≤ 10	0.000k ÷ 9.999k	0.001k	±(0.7%rdg + 3W/Wh)
	10.00k ÷ 99.99k	0.01k	±(0.7%rdg+30W/Wh)
10 < FS ≤ 200	0.00k ÷ 99.99k	0.01k	±(0.7%rdg+30W/Wh)
	100.0k ÷ 999.9k	0.1k	±(0.7%rdg+300W/Wh)
200 < FS ≤ 1000	0.0k ÷ 999.9k	0.1k	±(0.7%rdg+0.3kW/kWh)
	1000k ÷ 9999k	1k	±(0.7%rdg+3kW/kWh)

Vmeas = Voltage in which the power is measured

Power factor (Cosφ)

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

Voltage/Current harmonics (Real time values available only)

Range	Maximum resolution	Base accuracy
DC ÷ 25 th	0.3V / 0.1% FS clamp	±(5.0% rdg + 2dgt)
26 th ÷ 33 th		±(10% rdg + 2dgt)
34 th ÷ 49 th		±(15% rdg + 2dgt)

Harmonics will be zeroed:

- DC harmonics: DC value <0.5% 1st Harmonic value or if DC value < 0.5% FS clamp
- 1st Harmonic: 1st Harmonic value <0.5% FS clamp
- 2nd ÷ 49th Harmonics: 2nd ÷ 49th values <0.5% 1st Harmonic value or <0.5% FS clamp



2. GENERAL SPECIFICATIONS

ELECTRICAL SYSTEMS

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

CHANNELS RECORDED SIMULTANEOUSLY

- Phase to Neutral and Phase to Phase voltages
- Phase currents
- THD% voltages and currents
- Phase and total active and reactive power
- Phase and total power factor and $\text{Cos}\phi$
- Phase and total active and reactive energy
- Number of recorded parameters: 44 (fixed)
- Integration Period: 5, 10, 30s, 1, 2, 5, 10, 15, 60min.
- Recording autonomy: > 230 days with integrated period of 15 minutes
- Memory capacity: 8Mbyte

POWER SUPPLY:

Internal power supply: Rechargeable battery, battery life approx. 1 hour
External power supply: By mean Red/Yellow plugs, 100V ÷ 415V, 50/60Hz
45mA@100V, 30mA@230V, 20mA@415V

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:

Reference temperature: $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$
Working temperature: $0^{\circ} \div 40^{\circ}\text{C}$
Allowed relative humidity: <80%HR
Storage temperature: $-10 \div 60^{\circ}\text{C}$
Storage humidity: <80%HR

POWER/ENERGY MEASUREMENTS REFERENCE GUIDELINES:

Features of voltage supplied by public utilities: EN50160 (only voltage and THDV%)

GENERAL REFERENCE GUIDELINES:

Safety of measuring instruments: IEC/EN61010-1
Insulation: double insulation
Pollution degree: 2
Encapsulation: IP65 (case board closed)
Measurement category: CAT IV 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

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



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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