1. ELECTRICAL SPECIFICATIONS

Accuracy calculated as ±[%reading + (num dgt * resolution)] ta 18°C ÷ 28°C, <75%RH

DC VOLTAGE

Range	Resolution	Accuracy	Input impedance	Overload protection
600.0mV	0.1mV	±(0.09%rdg+5dgt)	>10MΩ	1000VDC/ACrms
6.000V	0.001V			
60.00V	0.01V			
600.0V	0.1V	±(0.2%rdg+5dgt)		
1000V	1V			

AC TRMS VOLTAGE

Range	Resolution	Accuracy (*)		Overload protection
		50Hz ÷ 60Hz	61Hz ÷ 1kHz	
6.000V	0.001V	±(0.8%rdg+5dgt)	±(2.4%rdg+5dgt)	1000VDC/ACrms
60.00V	0.01V			
600.0V	0.1V			
1000V	1V			

(*) Accuracy specified from 5% to 100% of measurement range and sinusoidal waveform ; Input impedance: >9MΩ
Accuracy PEAK function: ±10%rdg, PEAK response time: 1ms
For not sinusoidal waveforms the accuracy is: ±(10%rdg+10dgt)
NCV sensor for AC voltage detection: LEN on for phase-PE voltage within 100V and 1000V, 50/60Hz

AC+DC TRMS VOLTAGE

Range	Resolution	Accuracy (*) 50Hz ÷ 1kHz	Input impedance	Overload protection
6.000V	0.001V	±(2.4%rdg+20dgt)	>10MΩ	1000VDC/ACrms
60.00V	0.01V			
600.0V	0.1V			
1000V	1V			

DC CURRENT

Range	Resolution	Accuracy	Overload protection
600.0µA	0.1µA	±(0.9%rdg+5dgt)	Fast Fuse 800mA/1kV (inputs mA,µA)
6000µA	1µA		
60.00mA	0.01mA		
600.0mA	0.1mA	±(0.9%rdg+8dgt)	
10.00A	0.01A	±(1.5%rdg+8dgt)	Fast Fuse 10A/1kV (input 10A)

AC TRMS CURRENT

Range	Resolution	Accuracy (*) (50Hz ÷ 1kHz)	Overload protection
600.0µA	0.1µA	±(1.2%rdg+5dgt)	Fast Fuse 800mA/1kV (inputs mA, µA)
6000µA	1µA		
60.00mA	0.01mA		
600.0mA	0.1mA		
10.00A	0.01A	±(1.5%rdg+5dgt)	Fast Fuse 10A/1kV (input 10A)

(*) Accuracy specified from 5% to 100% of measurement range and sinusoidal waveform
Accuracy PEAK function: ±10%rdg, PEAK response time: 1ms;
For not sinusoidal waveforms the accuracy is: ±(10%rdg+10dgt)
AC+DC TRMS Current: accuracy (50Hz÷1kHz): ±(3.0%reading + 20dgt)

DC CURRENT WITH STANDARD TRANSDUCERS CLAMPS

Range	Output ratio	Resolution	Accuracy (*)	Overload protection
1000mA	1000mV/1000mA	1mA	±(0.8%rdg + 5dgt)	1000VDC/ACrms
10A	100mV/1A	0.01A		
40A (**)	10mV/1A	0.01A		
100A	10mV/1A	0.1A		
400A (**)	1mV/1A	0.1A		
1000A	1mV/1A	1A		

(*) Accuracy of the only instrument without clamp; (**) With transducer clamp HT4006

AC, AC+DC TRMS CURRENT WITH STANDARD TRANSDUCERS CLAMPS

Range	Output ratio	Resolution	Accuracy (*)		Overload protection
			(50Hz ÷ 60Hz)	(61Hz ÷ 1kHz)	
1000mA	1V/1mA	1mA	±(0.8%rdg +5dgt)	±(2.4%rdg+5dgt)	1000VDC/ACrms
10A	100mV/1A	0.01A			
40A (**)	10mV/1A	0.01A			
100A	10mV/1A	0.1A			
400A (**)	1mV/1A	0.1A			
1000A	1mV/1A	1A			

(*) Accuracy of the only instrument without clamp; (**) With transducer clamp HT4006

AC TRMS CURRENT WITH FLEXIBLE CLAMP (F3000U)

Range	Output ratio	Resolution	Accuracy (*)		Overload protection
			(50Hz ÷ 60Hz)	(61Hz ÷ 1kHz)	
30A	100mV/1A	0.01A	±(0.8%rdg+5dgt)	±(2.4%rdg+5dgt)	1000VDC/ACrms
300A	10mV/1A	0.1A			
3000A	1mV/1A	1A			

(*) Accuracy of the only instrument without clamp; Accuracy specified from 5% to 100% of measurement range

DIODE TEST

Range	Test current	Open voltage
→|←	<1.5mA	3.3VDC

FREQUENCY (Electrical circuits)

Range	Resolution	Accuracy	Overload protection
40.00Hz ÷ 10kHz	0.01Hz ÷ 0.001kHz	±0.5%rdg	1000VDC/ACrms

Sensitivity: 2Vrms

FREQUENCY (Electronic circuits)

Range	Resolution	Accuracy	Overload protection
60.00Hz	0.01Hz	±(0.09%rdg+5dgt)	1000VDC/ACrms
600.0Hz	0.1Hz		
6.000kHz	0.001kHz		
60.00kHz	0.01kHz		
600.0kHz	0.1kHz		
1.000MHz	0.001MHz		
10.00MHz	0.01MHz		

Sensitivity: >2Vrms (@ 20% ÷ 80% duty cycle) and f<100kHz; >5Vrms (@ 20% ÷ 80% duty cycle) and f>100kHz

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DUTY CYCLE

Range	Resolution	Accuracy	Overload protection
5.0% ÷ 95.0%	0.1%	±(1.2%rdg+2dgt)	1000VDC/ACrms

Pulse frequency range: 40Hz ÷ 10kHz, Impulse amplitude: ±5V (100µs ÷ 100ms)

RESISTANCE AND CONTINUITY TEST

Range	Resolution	Accuracy	Buzzer	Overload protection
600.0Ω	0.1Ω	±(0.5%rdg+10dgt)	<50Ω	1000VDC/ACrms
6.000kΩ	0.001kΩ	±(0.5%rdg+5dgt)		
60.00kΩ	0.01kΩ			
600.0kΩ	0.1kΩ			
6.000MΩ	0.001MΩ			
60.00MΩ	0.01MΩ	±(2.5%rdg+10dgt)		

CAPACITANCE

Range	Resolution	Accuracy	Overload protection
60.00nF	0.01nF	±(1.5%rdg + 20dgt)	1000VDC/ACrms
600.0nF	0.1nF	±(1.2%rdg + 8dgt)	
6.000µF	0.001µF	±(1.5%rdg + 8dgt)	
60.00µF	0.01µF	±(1.2%rdg + 8dgt)	
600.0µF	0.1µF	±(1.5%rdg + 8dgt)	
6000uF	1uF	±(2.5%rdg + 20dgt)	

TEMPERATURE WITH TYPE K PROBE

Range	Resolution	Accuracy (*)	Overload protection
-40°C ÷ 600°C	0.1°C	±(1.5%rdg+3°C)	1000VDC/ACrms
600°C ÷ 1000°C	1°C		
-40°F ÷ 600°F	0.1°F	±(1.5%rdg+5.4°F)	
600°F÷ 1800°F	1°F		

(*) Accuracy referred to instrument without probe
Specified accuracy with stable environmental temperature at ±1°C, For long-lasting measurements, reading increases by 2°C

INFRARED TEMPERATURE

Detector type	UFPA (80x80pxl, 34µm)
Spectral range	8 ÷14µm
Field of View (FOV) / Lens	21° x 21° / 7.5mm
IFOV (@1m)	4.53mrad
Thermal sensitivity	<0.1 °C @ 30°C (86°F) / 100mK
Focusing	Automatic
Minimum focal distance	0.5m
Image frequency	50Hz
Temperature unit	°C, °F, K
Colour palettes	4 (Iron, Rainbow, Grey, Grey Inverted)
Laser beam	Class 2 according with IEC 60825-1
Integrated illuminator	White LED light
Emissivity correction	0.01 ÷ 1.00
Measurement cursors	3 (Fixed, Max, Min)
Temperature range	-20°C ÷ 260°C (-4°F ÷ 500°F)
Accuracy	±3°C(5.4°F) or ±3%rdg (@ env temp:10°C÷35°C,object temp >0°C)

3. GENERAL SPECIFICATIONS

Display:
- Colour TFT, 6000 counts, sign, decimal point and bargraph
- Automatic polarity indication
- "**OL**" over range indication
- Response time: 3/s
- Conversion: TRMS

Features:
- Data HOLD
- MAX/MIN/PEAK (1ms)
- RANGE
- REL
- DATA LOGGER (internal memory): max 16 recordings, sample interval: 1s ÷ 15min, recording duration max 10 hours
- Fuse protection: F10A/1000V, 10 x 38mm (input **10A),** F800mA/1000V, 6 x 32mm (input **mAμA**)
- Laser beam
- White LED illuminator
- MEMORY: saved screenshots/pics in a micro SD card, BMP format, ca 23kscreenshots (@ 8GB card)
- Bluetooth connection (BLE 4.0) for connection to mobile devices (by means **HTMercury** APP)
- Auto Power OFF after 15, 30, 60min of idleness (disable)

Environmental conditions:
- Operating Temperature/Humidity: 5°C ÷ 40°C (41°F ÷ 104°F), <80%RH
- Storage Temperature/Humidity: -20°C ÷ 60°C (-4°F ÷ 140°F, <80%RH

General informations:
- Altitude max of use: 2000m
- Pollution degree: 2
- Insulation: double insulation

Mains supply:
- 1x7.4V rechargeable Li-ION battery, 1500mAh
- Battery rechargeable adapter: 100/240VAC, 50/60Hz, 12VDC, 3A
- Recharging time: ca 2 hours
- Battery life: ca 8hours (Bluetooth inactive), ca 7hours (Bluetooth active)

Mechanical specifications
- Dimensions ((L x W x H): 190 x 75 x 55mm
- Weight (included battery) : 555g
- Mechanical protection : IP65

Reference guidelines:
- Safety : IEC/EN61010-1
- EMC : IEC/EN61326-1
- Measurement category : CAT IV 600V – CAT III 1000V

This product conforms to the prescriptions of the European directive on low voltage 2014/35/EU and to EMC directive 2014/30/EU
This product conforms to the prescriptions of the European directive 2011/65/EU (RoHS) and the European directive 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.

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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.

Meer info

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!

Meer info

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).

Meer info

Verhuur van meetinstrumenten

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

Meer info

EURO-INDEX Academy

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

Meer info

Servicebalie

Onderhoud, reparatie en kalibratie

Cursussen en workshops

Mobiele Service

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