



1. ELECTRICAL SPECIFICATIONS

Accuracy calculated as $\pm[\% \text{reading} + (\text{num dgt} * \text{resolution})]$ ta 18°C \div 28°C, <75%RH

DC VOLTAGE

Range	Resolution	Accuracy	Input impedance	Overload protection
600.0mV	0.1mV	$\pm(0.09\% \text{rdg} + 5 \text{dgt})$	>10M Ω	1000VDC/ACrms
6.000V	0.001V			
60.00V	0.01V			
600.0V	0.1V	$\pm(0.2\% \text{rdg} + 5 \text{dgt})$		
1000V	1V			

AC TRMS VOLTAGE

Range	Resolution	Accuracy (*)		Overload protection
		50Hz \div 60Hz	61Hz \div 1kHz	
6.000V	0.001V	$\pm(0.8\% \text{rdg} + 5 \text{dgt})$	$\pm(2.4\% \text{rdg} + 5 \text{dgt})$	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: >9M Ω Accuracy PEAK function: $\pm 10\% \text{rdg}$, PEAK response time: 1msFor not sinusoidal waveforms the accuracy is: $\pm(10\% \text{rdg} + 10 \text{dgt})$

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 \div 1kHz	Input impedance	Overload protection
6.000V	0.001V	$\pm(2.4\% \text{rdg} + 20 \text{dgt})$	>10M Ω	1000VDC/ACrms
60.00V	0.01V			
600.0V	0.1V			
1000V	1V			

DC CURRENT

Range	Resolution	Accuracy	Overload protection
600.0 μ A	0.1 μ A	$\pm(0.9\% \text{rdg} + 5 \text{dgt})$	Fast Fuse 800mA/1kV (inputs mA, μ A)
6000 μ A	1 μ A		
60.00mA	0.01mA		
600.0mA	0.1mA	$\pm(0.9\% \text{rdg} + 8 \text{dgt})$	Fast Fuse 10A/1kV (input 10A)
10.00A	0.01A	$\pm(1.5\% \text{rdg} + 8 \text{dgt})$	

AC TRMS CURRENT

Range	Resolution	Accuracy (*) (50Hz \div 1kHz)	Overload protection
600.0 μ A	0.1 μ A	$\pm(1.2\% \text{rdg} + 5 \text{dgt})$	Fast Fuse 800mA/1kV (inputs mA, μ A)
6000 μ A	1 μ A		
60.00mA	0.01mA		
600.0mA	0.1mA		
10.00A	0.01A	$\pm(1.5\% \text{rdg} + 5 \text{dgt})$	Fast Fuse 10A/1kV (input 10A)

(*) Accuracy specified from 5% to 100% of measurement range and sinusoidal waveform

Accuracy PEAK function: $\pm 10\% \text{rdg}$, PEAK response time: 1ms;For not sinusoidal waveforms the accuracy is: $\pm(10\% \text{rdg} + 10 \text{dgt})$ AC+DC TRMS Current: accuracy (50Hz \div 1kHz): $\pm(3.0\% \text{reading} + 20 \text{dgt})$



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

**DUTY CYCLE**

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

Pulse frequency range: 40Hz ÷ 10kHz, Impulse amplitude: $\pm 5V$ (100 μ s ÷ 100ms)**RESISTANCE AND CONTINUITY TEST**

Range	Resolution	Accuracy	Buzzer	Overload protection
600.0 Ω	0.1 Ω	$\pm(0.5\%rdg+10dgt)$	<50 Ω	1000VDC/ACrms
6.000k Ω	0.001k Ω	$\pm(0.5\%rdg+5dgt)$		
60.00k Ω	0.01k Ω			
600.0k Ω	0.1k Ω			
6.000M Ω	0.001M Ω			
60.00M Ω	0.01M Ω	$\pm(2.5\%rdg+10dgt)$		

CAPACITANCE

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

TEMPERATURE WITH TYPE K PROBE

Range	Resolution	Accuracy (*)	Overload protection
-40°C ÷ 600°C	0.1°C	$\pm(1.5\%rdg+3^{\circ}C)$	1000VDC/ACrms
600°C ÷ 1000°C	1°C		
-40°F ÷ 600°F	0.1°F	$\pm(1.5\%rdg+5.4^{\circ}F)$	
600°F ÷ 1800°F	1°F		

(*) Accuracy referred to instrument without probe

Specified accuracy with stable environmental temperature at $\pm 1^{\circ}C$, For long-lasting measurements, reading increases by 2°C**INFRARED TEMPERATURE**

Detector type	UFPA (80x80pxl, 34 μ m)
Spectral range	8 ÷ 14 μ m
Field of View (FOV) / Lens	21° x 21° / 7.5mm
I FOV (@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	$\pm 3^{\circ}C(5.4^{\circ}F)$ or $\pm 3\%rdg$ (@ 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 **mA μ A**)
- 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)

Services d'EURO-INDEX

EURO-INDEX est un fabricant, importateur et distributeur de diverses marques A dans le domaine des instruments de test et de mesure. Nous fournissons également une large gamme de services pour optimiser l'utilisation de ces instruments dans vos activités. Ces services comprennent naturellement l'entretien, la réparation et l'étalonnage des instruments, mais nous proposons aussi une assistance sous forme de formation via notre EURO-INDEX Academy et la location d'instruments.

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Laboratoire de maintenance et de calibrage

Le laboratoire des Pays-Bas est accrédité RvA selon la norme EN-ISO/IEC 17025. Cette accréditation est valable pour différentes grandeurs, telles que spécifiées dans le champ d'application associé au numéro d'accréditation K105. Les certificats de calibrage RvA sont acceptés à l'international et équivalents à ceux de BELAC.



Service Mobile

Outre les laboratoires d'étalonnage fixes de Zaventem et de Capelle aan den IJssel, nous disposons également d'un laboratoire itinérant appelé "Service mobile". Nos services peuvent venir vers vous, en offrant une qualité équivalente.

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MQS® est une formule d'entretien exclusive comportant un entretien et un calibrage périodiques de vos instruments de mesure à un coût fixe et faible. Via un portail Web gratuit (monmq.be), vous avez toujours accès à vos certificats de calibrage.

Location d'instruments de mesure

- Vaste assortiment
- Précision démontrable par le certificat d'étalonnage actuel
- Conseils avisés
- Les instruments sont livrés avec leurs accessoires

EURO-INDEX Academy

- Formations et séminaires
- Vidéos de démonstration et d'instruction
- Notes d'application



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Formations et séminaires



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