1. TECHNICAL SPECIFICATIONS – DMM FUNCTIONS

Accuracy is indicated as ± [% readings + (no. of digits*resolution)] at 23°C ± 5°C, relative humidity <70%HR

DC/AC TRMS VOLTAGE (Autorange)

Range	Resolution	DC Accuracy	Accuracy (30 ÷ 70Hz)	Accuracy (70 ÷ 400Hz)	Input impedance
1.0 ÷ 999.9mV	0.1mV	±(0.5%rdg+2dgt)	±(1.0%rdg+2dgt)	±(2.0%rdg+2dgt)	1MΩ
1.000 ÷ 9.999V	0.001V				
10.00 ÷ 99.99V	0.01V				
100.0 ÷ 605.0V	0.1V				

AC/DC VOLTAGE: MAX / MIN / AVG / PEAK

Function	Range	Resolution	Accuracy	Response time
MAX, MIN, AVG	1.0mV ÷ 999.9mV	0.1mV	±(5.0%rdg + 10dgt)	500ms
	1.000V ÷ 9.999V	1mV		
	10.00V ÷ 99.99V	10mV		
	100.0V ÷ 605.0V	100mV		
PEAK	10.0mV ÷ 999.9mV	0.1mV		1ms
	1.000V ÷ 9.999V	1mV		
	10.00V ÷ 99.99V	10mV		
	100.0V ÷ 605.0V	100mV		

DC/AC CURRENT TRMS (with external clamp)

Range	Resolution	DC Accuracy	Accuracy (30 ÷ 70Hz)	Accuracy (70 ÷ 400Hz)	Crest factor	Overload protection
1.0 ÷ 999.9mV	0.1mV	±(0.5%rdg+2 dgt)	±(1.0%rdg+2 dgt)	±(2.0%rdg+2 dgt)	3	605Vrms max
1.000 ÷ 1.200V	1mV				1.5	

Note: accuracy indicated don't consider clamp accuracy. Please refer also to transducers clamp user's manual.

AC/DC CURRENT: MAX / MIN / AVG / PEAK (with external clamp)

Function	Range	Resolution	Accuracy	Response time	Overload protection
MAX, MIN, AVG	1.0mV ÷ 999.9mV	0.1mV	±(5.0%rdg+10 dgt)	500 ms	605Vrms max
	1.000V ÷ 1.200V	1mV			
PEAK	10.0mV ÷ 999.9mV	0.1mV		1ms	
	1.000V ÷ 3.000V	1mV			

RESISTANCE AND CONTINUITY TEST

Range	Resolution	Accuracy	Continuity test	Overload protection
0.00Ω ÷ 39.99Ω	0.01Ω	±(1.0%rdg+5 dgt)	R ≤40Ω	605Vrms max for 1 minute
40.0Ω ÷ 399.9Ω	0.1Ω			
400Ω ÷ 3999Ω	1Ω			
4.00kΩ ÷ 39.99kΩ	10Ω			

FREQUENCY (with test leads)

Range	Resolution	Accuracy	Input voltage	Overload protection
30.0 ÷ 199.9Hz	0.1Hz	±(0.5%rdg+2 dgt)	1.0mV ÷ 605V	605Vrms max
200 ÷ 400Hz	1Hz			

FREQUENCY (with external clamp)

Range	Resolution	Accuracy	Input voltage	Overload protection
30.0 ÷ 199.9Hz	0.1Hz	±(0.5%rdg+2dgt)	1.0mV ÷ 1.000V	605Vrms max
200 ÷ 400Hz	1Hz			

2. TECHNICAL SPECIFICATIONS – VERIFY TESTS & LAN TEST

Continuity test on protective and equalizing conductors (M72E, M74E, M75E, M75L)

Range (Ω)	Resolution (Ω)	Accuracy	Overload protection
0.01 ÷ 19.99	0.01	±(5.0%rdg + 3dgt)	605Vrms max
20.0 ÷ 99.9	0.1		

Test current: > 200mA DC for R≤5Ω (included calibration); Resolution on current measurement: 1mA
Open-circuit voltage: $4V \leq V_0 \leq 24V$

Insulation Resistance (M72E, M74E, M75E, M75L)

Range (MΩ)	Resolution (MΩ)	Accuracy	Overload protection
0.00 ÷ 19.99	0.01	±(5.0%rdg + 2dgt)	605Vrms max
20.0 ÷ 199.9	0.1		
200 ÷ 999 (*)	1	±(10.0%rdg + 2dgt)	

(*) For 500VDC test voltage. For 250VDC test voltage the range is: 200 ÷ 499MΩ
Test Voltage: 250V,500VDC
Test voltage accuracy: -0% ÷ +10% rdg
Short circuit current: <3.0mA
Nominal test current: 1mA @ 1kΩ x Vnom ; 1mA @ 500 kΩ

Tripping time test for RCD type AC and A/F (M73E, M74E, M75E, M75L)

Range (ms)	Resolution (ms)	Accuracy	Overload protection
2 ÷ 300	1	±(2.0% rdg + 2dgt)	605Vrms max

Nominal trip-out currents: 30mA, 30x5mA, 100mA, 300mA (Type AC), 30mA (Type A/F)
RCD type: AC (∿), A/F (⌒), General
Phase-Earth / Phase-Neutral voltage: 100V ÷ 265V
Frequency: 50Hz ± 0.5Hz / 60Hz ± 0.5Hz

Tripping current test for RCD type AC and A/F (M73E, M74E, M75E, M75L)

RCD Type	IΔN	Range IΔN [mA]	Resolution	Accuracy
AC, A/F (General)	30mA	6.0 ÷ 33.0	0.5mA	- 0%, +10%$I_{\Delta N}$

Phase-Earth / Phase-Neutral voltage: 100V ÷ 265V
Frequency: 50Hz ± 0.5Hz / 60Hz ± 0.5Hz

Global Earth Resistance (M73E, M74E, M75E, M75L)

Test current	Range (Ω)	Resolution (Ω)	Accuracy	Overload protection
15mA	1 ÷ 1999	1	±(5.0% rdg + 2dgt)	605Vrms max
100mA	0.1 ÷ 199.9	0.1	±(5.0% rdg + 3dgt)	

Phase-Earth voltage: 110V ÷ 265V
Frequency: 50Hz ± 0.5Hz / 60Hz ± 0.5Hz
Limit contact voltage: 50V

Phase sequence / conformity

Type of measure	Voltage range (V)	Frequency range (Hz)	System type
1 Wire	90 ÷ 315 (Phase – Earth)	45 ÷ 65	up to 315 (Phase – Earth) up to 550V (Phase – Phase)
2 Wire	110 ÷ 315 (Phase – Neutral)	45 ÷ 65	up to 315 (Phase – Earth) up to 550V (Phase – Phase)

Max crest factor :1.5
NOTE: the two-wire measurement can be performed also phase to phase in plants without neutral, even with one phase to earth, but always with phase to phase voltage up to 550V

Wire mapping test on LAN networks with RJ45 (M75E)

Length of the cable: 1÷100m
Remote units recognized: max 8 units
Wire mapping detected conditions: OPEN Pairs, REVERSED pairs, SHORT pairs, SPLIT pairs, CROSSED pairs, MISWIRING
Reference standard: TIA568B (UTP/STP)

3. GENERAL SPECIFICATIONS

DISPLAY:	
Features:	Dual numeric, 9999 points
Display update:	2 times/sec
Visible area:	73x73 mm
POWER SUPPLY:	
Batteries:	4 batteries 1.5V type LR6-AA-AM3-MN 1500
ELECTRICAL FEATURES:	
Conversion:	AC 16 Bit, TRMS
Sample frequency:	64 sample/period
MECHANICAL FEATURES:	
Dimensions (L x W x H):	240 x 100 x 45mm
Weight (included batteries):	approx 630 g
ENVIRONMENTAL CONDITIONS:	
Reference temperature:	23°C ± 5°C
Working temperature:	0°C ÷ 40°C
Allowed relative humidity:	<70%RH
Storage temperature:	-10°C ÷ 60°C
Storage humidity:	<70%RH
TEST VERIFIES REFERENCE STANDARDS:	
Continuity test with 200mA:	IEC/EN61557-4
Insulation resistance:	IEC/EN61557-2
Global earth resistance:	IEC/EN61557-3
RCDs test:	IEC/EN61557-6
REFERENCE STANDARDS:	
Safety of measuring instruments:	IEC/EN61010-1 + A2(1997)
EMC:	IEC/EN61326-1
Product type standard:	IEC/EN61557-1, 2, 3, 4, 6
Insulation:	double insulation
Pollution degree:	2
Overvoltage category:	CAT III 550V AC Phase - Ground CAT III 550V AC Phase - Phase
Max height of use:	2000m

This instrument satisfies the requirements of Low Voltage Directive 2014/35/EU (LVD) and of Directive 2014/30/EU (EMC)
This instrument satisfies the requirements of 2011/65/CE (RoHS) directive and the requirements of 2012/19/CE (WEEE) directive

Services d'EURO-INDEX

EURO-INDEX est le fabricant de la gamme LIGNE BLEUE et l' importateur/distributeur de diverses marques A d'instruments de test et de mesure. Nous proposons également un large éventail de services visant à optimiser l'utilisation de ces instruments dans le cadre de vos activités. Cela comprend la maintenance, la réparation et l'étalonnage des instruments, mais aussi le partage de connaissances via l'EURO-INDEX Academy et la location d'instruments.

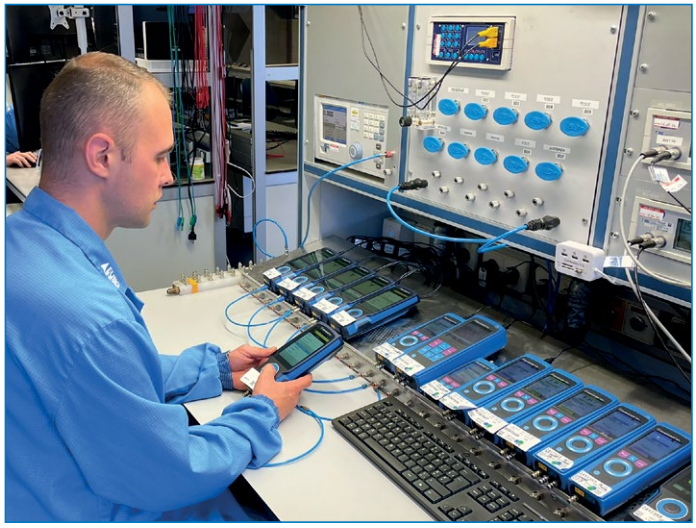
Centre de Service Agréé

EURO-INDEX est un Centre de Service Agréé pour la plupart des marques de sa gamme. Cela signifie que vos instruments sont pris en charge par des techniciens formés par le fabricant et disposant des outils et logiciels adéquats. Seules des pièces d'origine sont utilisées et la garantie de votre instrument, ainsi que les certifications (ATEX, EN50379, etc.) restent intactes.

Laboratoire d'étalonnage

Notre laboratoire de service et d'étalonnage est accrédité BELAC conformément à la norme EN-ISO/IEC 17025. L'accréditation s'applique aux grandeurs et aux plages de mesure mentionnées dans l'annexe certifiée portant le numéro de certificat 760-CAL.

Plus d'infos



MQS®

MQS® est une formule d'étalonnage pour vos instruments de test et de mesure, comprenant un entretien et un étalonnage diques à un coût fixe et avantageux.Vos certificats d'étalonnage sont disponibles au format numérique via Mon MQS (portail web et application gratuits) et en scannant le code QR sur l'autocollant d'étalonnage de l'instrument.

Plus d'infos

Location d'instruments de mesure

Plus d'infos

Il existe plusieurs situations dans lesquelles la location est pratique :

- Vous avez temporairement besoin d'appareils supplémentaires.
- Votre propre instrument de mesure est en cours d'entretien et/ou d'étalonnage.
- Vous devez effectuer une mesure occasionnelle.

Plus d'infos

EURO-INDEX Academy

- Formations, sessions d'informations et workshops
- Vidéos de démonstration et d'instruction
- Notes d'application

Plus d'infos

Comptoir de service

Entretien, réparation et calibrage

Formations et seminars

Laboratoire d'étalonnage

Sous réserve de modifications EURO-INDEX® FR 26001

EURO INDEX

BELGIQUE
Chaussée de Louvain 607
1930 Zaventem
T: 02 - 757 92 44

sales@euro-index.be
www.euro-index.be

PAYS-BAS
Rivium 2e straat 12
2909 LG Capelle a/d IJssel
T: +31 - (0)10 - 2 888 000

verkoop@euro-index.nl
www.euro-index.nl