1. TECHNICAL SPECIFICATIONS

Accuracy is calculated as: ±[%reading + (no. of digits) * resolution] at 23°C, <80%RH

AC TRMS VOLTAGE

Range (V)	Resolution (V)	Accuracy
15 ÷ 460	1	±(3.0% rdg + 2dgt)

FREQUENCY

Range (Hz)	Resolution (Hz)	Accuracy
47.50 ÷ 52.50 / 57.00 ÷ 63.00	1	±(0.1% rdg + 1dgt)

CONTINUITY OF PROTECTION CONDUCTORS WITH 200mA

Range (Ω)	Resolution (Ω)	Accuracy
0.00 ÷ 9.99	0.01	±(5.0% rdg + 3dgt)
10.0 ÷ 99.9	0.1	
100 ÷ 1999	1	

Test current: >200mA DC up to 5Ω (test leads included)
Test current generated: 1mA resolution, range 0 ÷ 250mA
Open-circuit voltage: 4 < V_0 < 24VDC
Safety protection: error message for input voltage >10V

INSULATION RESISTANCE

DC test voltage (V)	Range (MΩ)	Resolution (MΩ)	Accuracy
50	0.01 ÷ 9.99	0.01	±(2.0% rdg + 2dgt)
	10.0 ÷ 49.9	0.1	
	50.0 ÷ 99.9		±(5.0% rdg + 2dgt)
100	0.01 ÷ 9.99	0.01	±(2.0% rdg + 2dgt)
	10.0 ÷ 99.9	0.1	
	100 ÷ 199	1	±(5.0% rdg + 2dgt)
250	0.01 ÷ 9.99	0.01	±(2.0% rdg + 2dgt)
	10.0 ÷ 99.9	0.1	
	100 ÷ 249	1	
	250 ÷ 499		±(5.0% rdg + 2dgt)
500	0.01 ÷ 9.99	0.01	±(2.0% rdg + 2dgt)
	10.0 ÷ 199.9	0.1	
	200 ÷ 499	1	
	500 ÷ 999		±(5.0% rdg + 2dgt)
1000	0.01 ÷ 9.99	0.01	±(2.0% rdg + 2dgt)
	10.0 ÷ 199.9	0.1	
	200 ÷ 999	1	
	1000 ÷ 1999		±(5.0% rdg + 2dgt)

Open-circuit voltage rated test voltage -0% +10%
Rated measuring current: >1mA with 1kΩ x Vnom (50V, 100V, 250V, 1000V), >2.2mA with 230kΩ @ 500V
Short-circuit current <6.0mA for each test voltage
Safety protection: error message for input voltage >30V

LINE/LOOP IMPEDANCE P-P, P-N, P-PE – TT/TN SYSTEMS

Range (Ω)	Resolution (Ω)	Accuracy
0.01 ÷ 19.99	0.01	±(5.0% rdg + 3dgt)
20.0 ÷ 199.9	0.1	

Maximum test current: 3.31A (at 265V); 5.71A (at 457V)
P-N/P-P Test voltage: (100V ÷265V) / (100V÷460V); 50/60Hz ±5%
Protection types: MCB (B, C, D, K), Fuse (aM, gG, BS882-2,BS88-3, BS3036, BS1362)

TEST ON RCD PROTECTION (MOLDED-CASE TYPE)

Differential protection type (RCD): AC (∿), A/F (∿), General (G), Selective (S)

Single -phase systems (L-N-PE)

Voltage range L-PE, L-N: 100V ÷265V

Voltage range N-PE: <10V

Split-phase systems (phase delay VL1-PE, VL2-PE = 180° or phase delay VL1-PE, VL2-PE = 120°)

Voltage range L1-PE, L1-L2: 100V ÷265V

Voltage range L2-PE: 0V÷265V

Rated tripping currents (I∆N): 6mA,10mA, 30mA, 100mA, 300mA, 500mA, 650mA, 1000mA

Frequency: 50/60Hz ± 5%

RCD tripping current (for General RCDs only)

Type RCD	I∆N	Range I∆N (mA)	Resolution (mA)	Accuracy
A/F, AC	6mA,10mA	(0.2 ÷ 1.1) $I_{\Delta N}$	$0.1I_{\Delta N}$	- 0%, +10%$I_{\Delta N}$
	30mA ≤I∆N ≤300mA			- 0%, +5%$I_{\Delta N}$
	500mA ≤I∆N ≤650mA			

Measurement RCD tripping time – TT/TN systems

	x 1/2		x 1		x 5		AUTO			AUTO+	
\	G	S	G	S	G	S	G	S	G S	G	S
6mA	AC 999	999	999	999	50	150	✓	✓	310	✓	
	A/F 999	999	999	999	50	150	✓	✓	310	✓	
10mA	AC 999	999	999	999	50	150	✓	✓	310	✓	
	A/F 999	999	999	999	50	150	✓	✓	310	✓	
30mA	AC 999	999	999	999	50	150	✓	✓	310	✓	
	A/F 999	999	999	999	50	150	✓	✓	310	✓	
100mA	AC 999	999	999	999	50	150	✓	✓	310		
	A/F 999	999	999	999	50	150	✓	✓	310		
300mA	AC 999	999	999	999	50	150	✓	✓	310		
	A/F 999	999	999	999	50	150	✓	✓	310		
500mA	AC 999	999	999	999	50	150	✓	✓	310		
	A/F 999	999	999	999	50	150	✓	✓	310		
650mA	AC 999	999	999	999	50	150	✓	✓	310		
	A/F 999	999	999	999							
1000mA	AC 999	999	999								
	A/F 999	999	999								

Table with duration of tripping time measurement [ms] - Resolution: 1ms, Accuracy:±(2.0%reading + 2digits)

Measurement RCD tripping time – IT systems

	x 1/2		x 1		x 5		AUTO			AUTO+	
\	G	S	G	S	G	S	G	S	G S	G	S
6mA 10mA 30mA	AC 999	999	999	999	50	150	✓	✓	310	✓	
	A/F 999	999	999	999	50	150	✓	✓	310	✓	
100mA 300mA	AC 999	999	999	999	50	150	✓	✓	310		
	A/F 999	999	999	999	50	150	✓	✓	310		
500mA 650mA	AC 999	999	999	999	50	150	✓		310		
	A/F 999	999	999	999			✓		310		
1000mA	AC 999	999	999	999							
	A/F 999	999	999	999							

Table with duration of tripping time measurement [ms] - Resolution: 1ms, Accuracy:±(2.0%reading + 2digits)

FIRST FAULT CURRENT – IT SYSTEMS

Range (mA)	Resolution (mA)	Accuracy
0.1 ÷ 0.9	0.1	±(5.0% rdg + 1dgt)
1 ÷ 999	1	±(5.0% rdg + 3dgt)

Limit contact voltage (ULIM) : 25V, 50V

OVERALL EARTH RESISTANCE WITHOUT RCD TRIPPING

Voltage range P-PE, P-N: 100V ÷ 265V
Voltage range N-PE: <10V
Frequency: 50/60Hz ± 5%

Overall earth resistance in systems with Neutral (3-wire) – (30mA or higher RCD)

Range (Ω)	Resolution (Ω)	Accuracy
0.05 ÷ 9.99	0.01	± (5.0% rdg + 8dgt)
10.0 ÷ 199.9	0.1	

Overall earth resistance in systems with Neutral (3-wire) – (6mA and 10mA RCD)

Range (Ω)	Resolution (Ω)	Accuracy
0.05 ÷ 9.99	0.01	± (5.0% rdg + 30dgt)
10.0 ÷ 199.9	0.1	

Overall earth resistance in systems withot Neutral (2-wire) – (30mA or higher RCD)

Range (Ω)	Resolution (Ω)	Accuracy
0.05 ÷ 9.99	0.01	± (5.0% rdg + 8dgt)
10.0 ÷ 99.9	0.1	
100 ÷ 1999	1	

Overall earth resistance in systems withou Neutral (2-wire) – (6mA and 10mA RCD)

Range (Ω)	Resolution (Ω)	Accuracy
0.05 ÷ 9.99	0.01	± (5.0% rdg + 30dgt)
10.0 ÷ 99.9	0.1	
100 ÷ 1999	1	

Contact voltage

Range [V]	Resolution [V]	Accuracy
0 ÷ Ut LIM	0.1	-0%, +(5.0%rdg + 3V)

PHASE ROTATION WITH 1 TEST LEAD

Voltage range P-N, P-PE[V]	Frequency range
100 ÷ 265	50Hz/60Hz ± 5%

Measurement is only carried out by direct contact with metal live parts (**not on insulation sheath**)

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2. GENERAL SPECIFICATIONS

MECHANICAL CHARACTERISTICS	
Dimensions (L x W x H):	225 x 165 x 75mm (9 x 6 x 3in)
Weight (batteries included):	1.2kg (42 ounces)
Mechanical protection:	IP40
MEMORY AND PC CONNECTIONS	
Memory:	999 locations, 3 mark levels
PC connection:	optical/USB port
DISPLAY	
Characteristics:	COG Black/white graphic LCD, 320x240pxl
POWER SUPPLY	
Battery type:	6x1.5V alkaline batteries type AA IEC LR06 or 6 x1.2V rechargeable NiMH type AA
Battery life:	> 500 tests for each function
Auto Power OFF:	after 5 minutes' idling (if activated)
ENVIRONMENTAL CONDITIONS FOR USE	
Reference temperature:	23°C ± 5°C (73°F ± 41°F)
Operating temperature:	0°C ÷ 40°C (32°F ÷ 104°F)
Allowable relative humidity:	<80%RH
Storage temperature:	-10°C ÷ 60°C (14°F ÷ 140°F)
Storage humidity:	<80%RH
Max. operating altitude:	2000m (6562ft
REFERENCE GUIDELINES	
Safety:	IEC/EN61010-1,IEC/EN61010-2-030,IEC/EN61010-2-033 IEC/EN61010-2-034, IEC/EN61557-1
EMC :	IEC/EN61326-1
Technical documentation:	IEC/EN61187
Safety of accessories:	IEC/EN61010-031
Insulation:	double insulation
Pollution level:	2
Measurement category:	CAT IV 300V to earth, maximum 415V between inputs
RPE:	IEC/EN61557-4, BS7671 17th ed., AS/NZS3000/3017
MΩ:	IEC/EN61557-2, BS7671 17th ed., AS/NZS3000/3017
RCD:	IEC/EN61557-6 (only on Phase-Neutral-Earth systems)
LOOP P-P, P-N, P-PE:	IEC/EN61557-3, BS7671 17th ed., AS/NZS3000/3017
Multifunction:	IEC/EN61557-10, BS7671 17th ed., AS/NZS3000/3017
Short-circuit current:	EN60909-0

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

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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.

Plus d'infos

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Sous réserve de modifications EURO-INDEX® FR 23001

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