

1. ELECTRICAL SPECIFICATIONS – SAFETY SECTION

Accuracy is indicated as \pm (% readings + no. of digits*resolution) at 23 °C \pm 5 °C, <80%RH

Voltage (RCD, LOOP, Phase sequence)

Range [V]	Resolution [V]	Accuracy
15 ÷ 460	1	$\pm(3.0\% \text{ rdg} + 2\text{dgt})$

Continuity test on protective and equalizing conductors with 200mA

Range [Ω]	Resolution [Ω]	Accuracy (*)
0.01 ÷ 19.99	0.01	$\pm(5.0\% \text{ rdg} + 3\text{dgt})$
20.0 ÷ 99.9	0.1	

(*) calibrate the cables to null their resistance

Test current: > 200mA DC for $R \leq 5\Omega$ (calibration included) ; Resolution for DC current :1mA

Open-circuit voltage: $4V \leq V_0 \leq 12V$

Safety protection: the display shows an error message for input voltage > approx. 10V

Insulation resistance (DC voltage)

Test voltage[V]	Range [$M\Omega$]	Resolution [$M\Omega$]	Accuracy
50	0.01 ÷ 9.99	0.01	$\pm(2.0\% \text{ rdg} + 2\text{dgt})$
	10.0 ÷ 49.9	0.1	
	50.0 ÷ 99.9	0.1	$\pm(5.0\% \text{ rdg} + 2\text{dgt})$
100	0.01 ÷ 9.99	0.01	$\pm(2.0\% \text{ rdg} + 2\text{dgt})$
	10.0 ÷ 99.9	0.1	
	100.0 ÷ 199.9	0.1	$\pm(5.0\% \text{ rdg} + 2\text{dgt})$
250	0.01 ÷ 9.99	0.01	$\pm(2.0\% \text{ rdg} + 2\text{dgt})$
	10.0 ÷ 99.9	0.1	
	100 ÷ 499	1	$\pm(5.0\% \text{ rdg} + 2\text{dgt})$
500	0.01 ÷ 9.99	0.01	$\pm(2.0\% \text{ rdg} + 2\text{dgt})$
	10.0 ÷ 199.9	0.1	
	200 ÷ 499	1	$\pm(5.0\% \text{ rdg} + 2\text{dgt})$
	500 ÷ 999	1	
1000	0.01 ÷ 9.99	0.01	$\pm(2.0\% \text{ rdg} + 2\text{dgt})$
	10.0 ÷ 199.9	0.1	
	200 ÷ 999	1	$\pm(5.0\% \text{ rdg} + 2\text{dgt})$
	1000 ÷ 1999	1	

Open-circuit voltage: nominal test voltage $-0\% +10\%$

Short circuit current: <6.0mA at 500V test voltage

Nominal test current: >1mA if load= $1k\Omega \cdot V_{nom}$ ($V_{nom}=50V, 100V, 250V, 500V, 1000V$)

Safety protection: the display shows an error message for input voltage > approx.10V

Z Line (L-L, L-N, L-PE)

Range [Ω]	Resolution [Ω]	Accuracy
0.00 ÷ 199.9 m Ω (*)	0.1 m Ω (*)	$\pm(5.0\% \text{ rdg} + 1\text{m}\Omega)$ (*)
200 ÷ 1999 m Ω (*)	1 m Ω (*)	
0.01 ÷ 9.99 Ω	0.01 Ω	$\pm(5.0\% \text{ rdg} + 3\text{dgt})$
10.0 ÷ 199.9 Ω	0.1 Ω	

(*) By means of IMP57 optional accessory

Maximum test current: 5.81A (at 265V); 10.10A (at 457V)

Test voltage ranges: 100÷265V (Line-Neutral) / 173÷460V (Line-Line); 50/60Hz \pm 5%

Protection type: MCB (B, C, D, K), Fuse (gG, aM)

Insulation materials: PVC, Rubber butyl, EPR, XLPE

First fault current (IT systems)

Range (mA)	Resolution (mA)	Accuracy
0.1 ÷ 0.9	0.1	$\pm(5.0\% \text{ rdg} + 1\text{dgt})$
1 ÷ 999	1	$\pm(5.0\% \text{ rdg} + 3\text{dgt})$

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


RCD test (Molded case type)

RCD type: AC (⌚), A/F (⌚⌚), B/B+ (⌚⌚⌚) – General (G), Selective (S) and Delayed (⌚)
 Rated tripping currents (I_{ΔN}): 10mA, 30mA, 100mA, 300mA, 500mA, 650mA, 1000mA
 Line-PE, Line-N voltage: 100V ±265V RCD type AC and A/F, 190V ±265V RCD type B/B+
 Frequency: 50/60Hz ± 5%

RCD tripping current (Molded case type – RCD General)


RCD type	I _{ΔN}	Range I _{ΔN} [mA]	Resolution [mA]	Accuracy I _{ΔN}
AC, A/F	I _{ΔN} = 10mA	(0.3 ÷ 1.1) I _{ΔN}	≤ 0.1 I _{ΔN}	- 0%, +10% I _{ΔN}
	10mA < I _{ΔN} ≤ 650mA			- 0%, +5% I _{ΔN}
B/B+	30mA ≤ I _{ΔN} ≤ 100mA			

RCD Molded type tripping time range [ms] (TT/TN system)

	x 1/2			x 1			x 2			x 5			AUTO					
	\	G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚	G	S
10mA	AC	999	999	999	999	999	999	200	250	50	150	✓	✓				310	
	A/F	999	999	999	999	999	999	200	250	50	150	✓	✓				310	
	B/B+																310	
30mA 100mA	AC	999	999	999	999	999	999	200	250	50	150	✓	✓				310	
	A/F	999	999	999	999	999	999	200	250	50	150	✓	✓				310	
	B/B+	999	999	999	999	999	999										310	
300mA	AC	999	999	999	999	999	999	200	250	50	150	✓	✓				310	
	A/F	999	999	999	999	999	999	200	250	50	150	✓	✓				310	
	B/B+	999	999	999	999	999	999										310	
500mA 650mA	AC	999	999	999	999	999	999	200	250	50	150	✓	✓				310	
	A/F	999	999	999	999	999	999	200	250							310		
	B/B+																310	
1000mA	AC	999	999	999	999	999	999	200	250									
	A/F	999	999	999	999	999	999											
	B/B+																	

Resolution: 1ms, Accuracy: ±(2.0%rdg + 2dgt)

RCD Molded type tripping time range [ms] (IT system)

	x 1/2			x 1			x 2			x 5			AUTO					
	\	G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚	G	S
10mA	AC	999	999	999	999	999	999	200	250	50	150	✓	✓				310	
	A/F																	
	B/B+																	
30mA 100mA 300mA	AC	999	999	999	999	999	999	200	250	50	150	✓	✓				310	
	A/F																	
	B/B+																	
500mA 650mA	AC	999	999	999	999	999	999	200	250	50	150	✓	✓				310	
	A/F																	
	B/B+																	
1000mA	AC	999	999	999	999	999	999	200	250									
	A/F																	
	B/B+																	

Resolution: 1ms, Accuracy: ±(2.0%rdg + 2dgt)

Test on earth leakage delay tester RCDs (with RCDX10 optional accessory)

RCD type: AC (⌚), A/F (⌚⌚), B/B+ (⌚⌚*) – General (G), Selective (S) and Delayed (⌚)
 Rated tripping currents (I_{ΔN}): 0.3A ÷ 10A
 Line-PE, Line-N voltage: 100V ÷ 265V RCD type AC and A/F, 190V ÷ 265V RCD type B/B+
 Frequency: 50/60Hz ± 5%

Earth leakage delay tester RCDs tripping current (RCD General)

RCD type	I _{ΔN}	Range I _{ΔN} [mA]	Resolution [mA]	Accuracy I _{ΔN}
AC, A/F	300mA ≤ I _{ΔN} ≤ 6.5A	(0.3 ÷ 1.1) I _{ΔN}	≤ 0.1 I _{ΔN}	- 0%, +5% I _{ΔN}
B/B+	300mA ≤ I _{ΔN} ≤ 1A			

Earth leakage delay tester RCDs trip out time range [ms] (TT/TN system)

	x 1/2			x 1			x 2			x 5			AUTO			📈			
	\	G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚
0.3A ÷ 1.0A	AC	999	999	999	999	999	999	200	250		50	150		✓	✓		310		
	A/F	999	999	999	999	999	999	200	250		50	150		✓	✓		310		
	B/B+	999	999	999	999	999	999										310		
1.1A ÷ 3.0A	AC	999	999	999	999	999	999	200	250		50	150		✓	✓		310		
	A/F	999	999	999	999	999	999	200	250		50	150		✓	✓		310		
	B/B+	999	999	999	999	999	999										310		
3.1A ÷ 6.5A	AC	999	999	999	999	999	999	200	250		50	150		✓	✓		310		
	A/F	999	999	999	999	999	999	200	250		50	150		✓	✓		310		
	B/B+	999	999	999	999	999	999										310		
6.6A ÷ 10.0A	AC	999	999	999	999	999	999	200	250										
	A/F	999	999	999	999	999	999												
	B/B+																		

Resolution: 1ms, Accuracy: ±(2.0%rdg + 2dgt)

Earth leakage delay tester RCDs trip out time range [ms] (IT system)

	x 1/2			x 1			x 2			x 5			AUTO			📈			
	\	G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚	G	S	⌚
0.3A ÷ 3.0A	AC	999	999	999	999	999	999	200	250		50	150		✓	✓		310		
	A/F																		
	B/B+																		
3.1A ÷ 6.5A	AC	999	999	999	999	999	999	200	250		50	150		✓	✓		310		
	A/F																		
	B/B+																		
6.6A ÷ 10.0A	AC	999	999	999	999	999	999	200	250										
	A/F																		
	B/B+																		

Resolution: 1ms, Accuracy: ±(2.0%rdg + 2dgt)

R_A – Non-trip earth loop impedance

Test voltage: 100÷265V (Line-PE), 50/60Hz ± 5%

R_A – Systems with Neutral wire

Range [Ω]	Resolution [Ω]	Accuracy
0.01 ÷ 9.99	0.01	-0%, +(5.0% rdg + 0.1Ω)
10.0 ÷ 199.9	0.1	-0%, +(5.0% rdg + 1Ω)
200 ÷ 1999	1	-0%, +(5.0% rdg + 3Ω)

Test current: ~10mA

R_A – Systems without Neutral wire

Range [Ω]	Resolution [Ω]	Accuracy
1 ÷ 1999	1	-0%, +(5.0% rdg + 3dgt)

Test current: < ½ I_{ΔN} set



Contact voltage (RCD and Ra test)

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

Contact voltage (EARTH test – TT system)

Range [V]	Resolution [V]	Accuracy
0 ÷ 99.9	0.1	-0%, +(5.0% rdg + 3V)

Contact voltage (EARTH test – TN system)

Range [V]	Resolution [V]	Accuracy
0 ÷ 99.9	0.1	-0%, +(5.0% rdg + 3V)
100 ÷ 999	1	

Ground resistance with 3-wire method

Range [Ω]	Resolution [Ω]	Accuracy (*)
0.01 ÷ 9.99	0.01	$\pm(5.0\% \text{ rdg} + 3\text{dgt})$
10.0 ÷ 99.9	0.1	
100 ÷ 999	1	
1.00k ÷ 49.99k	0.01k	

Test current: <10mA – 77.5Hz, Open-circuit voltage: < 20Vrms

(*) Add 5% to the accuracy if the probe resistances (R_s or R_h) > 100 x R_{meas}

Soil resistivity with 4-wire Wenner method

Range [Ωm]	Resolution [Ωm]	Accuracy (*)
0.06 ÷ 9.99	0.01	$\pm(5.0\% \text{ rdg} + 3\text{dgt})$
10.0 ÷ 99.9	0.1	
100 ÷ 999	1	
1.00k ÷ 9.99k	0.01k	
10.0k ÷ 99.9k	0.1k	
100k ÷ 999k (*)	1k	
1.00M ÷ 3.14M (*)	0.01M	

(*) with distance $d=10\text{m}$, Distance "d" range: 1 ÷ 10m

Test current: <10mA – 77.5Hz, Open-circuit voltage: < 20Vrms

Phase sequence rotation with 1-wire method

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

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

Voltage drop on main power lines ($\Delta V\%$)

Range (%)	Resolution (%)	Accuracy
0 ÷ 100	0.1	$\pm(10.0\% \text{ rdg} + 4\text{dgt})$

Voltage range Phase-PE, Phase-Neutral: 100 ÷ 265V, Frequency: 50/60Hz $\pm 5\%$

Leakage current (by HT96U optional clamp transducer)

FS clamp AC (A)	Resolution	Accuracy
1	0.1mA	$\pm(1.0\% \text{ rdg} + 20\text{dgt})$
1 < FS < 10	0.01A	
10 \leq FS < 100	0.1A	
100 \leq FS < 1000	1A	

Environmental parameters (AUX function)

Parameter	Range	Resolution	Accuracy
Temperature [$^{\circ}\text{C}$]	-20 $^{\circ}\text{C}$ ÷ 80 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$	$\pm(2.0\% \text{ rdg} + 2\text{dgt})$
Temperature [$^{\circ}\text{F}$]	-4 $^{\circ}\text{F}$ ÷ 176 $^{\circ}\text{F}$	0.1 $^{\circ}\text{F}$	
Relative humidity [%HR]	0 ÷ 100%HR	0.1% UR	
DC output voltage	0.1mV ÷ 1.0V	0.1mV	
Illuminance [Lux] (* Accuracy of HT53 lux probe is according to Class AA)	0.001Lux ÷ 20.00 Lux (*)	0.001 ÷ 0.02 Lux	
	0.1 Lux ÷ 2000 Lux (*)	0.1 ÷ 2 Lux	
	1 Lux ÷ 20 kLux (*)	1 ÷ 20 Lux	

2. ELECTRICAL SPECIFICATIONS – PQA SECTION

AC TRMS Voltage (L-N)

Range [V]	Resolution [V]	Accuracy
15.0 ÷ 380.0	0.1V	±(1.0%rdg + 1dgt)

Allowed crest factor: ≤ 1,5 ; Frequency: 42 ÷ 69.0 Hz

AC TRMS Voltage (L-L)

Range [V]	Resolution [V]	Accuracy
15.0 ÷ 660.0	0.1V	±(1.0%rdg + 1dgt)

Allowed crest factor: ≤ 1,5 ; Frequency: 42 ÷ 69.0 Hz

Frequency

Range [Hz]	Resolution [Hz]	Accuracy
DC, 42 ÷ 69.0	0.01	±(2.0%rdg + 2dgt)

Allowed voltage: 15.0 ÷ 660V ; Allowed current: 5%FS clamp ÷ FS clamp

DC/ AC TRMS Current (STD clamp)

FS clamp	Range [A]	Resolution [A]	Accuracy
≤ 10A	5% FS ÷ 9.99	0.01	±(1.0%rdg + 3 dgt)
10A ≤ FS ≤ 300	5% FS ÷ 299.9	0.1	
300A ≤ FS ≤ 3000	5% FS ÷ 2999	1	

Range: 5 ÷ 999.9 mV; Values under 5mV are zeroed

Allowed crest factor: ≤ 3; Frequency: 42 ÷ 69.0 Hz

AC TRMS Current (FLEX clamp – 300A AC)

Range [mV]	Frequency [Hz]	Resolution	Accuracy	Overload protection
0.085 ÷ 85.0	42 ÷ 69.0	8.5μV	±(0.5%rdg+0.17%FS)	10V

Allowed crest factor ≤3, Values under 1A are zeroed

AC TRMS Current (FLEX clamp – 3000A AC)

Range [mV]	Frequency [Hz]	Resolution	Accuracy	Overload protection
0.425 ÷ 255.0	42 ÷ 69.0	85μV	±(0.5%rdg+0.17%FS)	10V

Allowed crest factor ≤3, Values under 10A are zeroed

DC Power

FS clamp	Range [kW]	Resolution [kW]	Accuracy
≤ 10A	0.000 ÷ 9.999	0.001	±(2.0%rdg + 7dgt)
	10.00 ÷ 99.99	0.01	
10A ≤ FS ≤ 200	0.00 ÷ 99.99	0.01	
	100.0 ÷ 999.9	0.1	
200A ≤ FS ≤ 1000	0.0 ÷ 999.9	0.1	
	1000 ÷ 9999	1	

Active power (@ 230V, I > 5%FS, cosφ ≥ 0.5, f=50.0Hz)

FS clamp	Range [kW]	Resolution [kW]	Accuracy
≤ 10A	0.000 ÷ 9.999	0.001	±(2.0%rdg + 7dgt)
	10.00 ÷ 99.99	0.01	
10A ≤ FS ≤ 200	0.00 ÷ 99.99	0.01	
	100.0 ÷ 999.9	0.1	
200A ≤ FS ≤ 1000	0.0 ÷ 999.9	0.1	
	1000 ÷ 9999	1	
1000A ≤ FS ≤ 3000	0 ÷ 9999	1	

Reactive power (@ 230V, I >5%FS, cosφ<0.9, f=50.0Hz)

FS clamp	Range [kVAr]	Resolution [kVAr]	Accuracy
≤ 10A	0.000 ÷ 9.999	0.001	±(2.0%rdg + 7dgt)
	10.00 ÷ 99.99	0.01	
10A ≤ FS ≤ 200	0.00 ÷ 99.99	0.01	
	100.0 ÷ 999.9	0.1	
200A ≤ FS ≤ 1000	0.0 ÷ 999.9	0.1	
	1000 ÷ 9999	1	
1000A ≤ FS ≤ 3000	0 ÷ 9999	1	

Power factor / cosφ (@ 230V, I >5%FS)

Range	Resolution	Accuracy
0.70c ÷ 1.00 ÷ 0.70i	0.01	±(2.0%rdg + 3dgt)

Voltage harmonics (@ 230V in 1Ph systems, 400V in 3Ph systems)

Range [%]	Resolution [%]	Order	Accuracy
0.1 ÷ 100.0	0.1	DC, 01 ÷ 49	±(5.0%rdg + 5dgt)

Frequency of fundamental: 42 ÷ 69.0 Hz

Harmonics are zeroed at the below conditions:

- DC : DC value <0.5% fundamental value or DC value < 1.0V
- 1° Harmonic: value of 1° Harmonic < 15V
- 2nd ÷ 49th Harmonics: harmonic value <0.5% fundamental value or if value < 1.0V

Current harmonics

Range [%]	Resolution [%]	Order	Accuracy
0.1 ÷ 100.0	0.1	DC, 01 ÷ 49	±(5.0%rdg + 5dgt)

Frequency of fundamental: 42 ÷ 69.0 Hz

Harmonics are zeroed at the below conditions:

- DC : DC value <0.5% fundamental value or DC value < 0.5%FS clamp
- 1° Harmonic: value of 1° Harmonic < 0.5%FS clamp
- 2nd ÷ 49th Harmonics: harmonic value <0.5% fundamental value or if value < 0.5%FS clamp

Voltage anomalies (L-N, L-PE)

Range [V]	Resolution [V]	Resolution [ms]	Accuracy [V]	Accuracy [ms]
15.0 ÷ 380	0.2	20ms	±(1.0%rdg + 2dgt)	± 1cycle

Voltage anomalies (L-L)

Range [V]	Resolution [V]	Resolution [ms]	Accuracy [V]	Accuracy [ms]
15.0 ÷ 660	0.2	20ms	±(1.0%rdg + 2dgt)	± 1cycle



3. GENERAL SPECIFICATIONS

DISPLAY AND MEMORY:

Features:	TFT, touch screen, color graphic LCD, 320x240mm
Memory safety section:	999 locations, 3 marker levels
Memory PQA section:	8MB (not expanded)
Communication:	Optical-USB and built-in WiFi
Aggregation time (IP) PQA feature:	2s ÷ 30min selectable
Parameters saved PQA feature:	ca 600

POWER SUPPLY:

Batteries:	6 x 1.2V(rechargeable) type AA or 6 x 1.5V type AA
Battery life:	> 500 test for each safety functions
Recording autonomy:	ca 43 days (IP=15min) ca 2 days (IP=1min) ca 2 hours (IP=2s)
Recharging time:	approx. 12 hours
External charger:	100-240VAC, 50/60Hz / 15VDC, CAT IV 300V
Auto Power OFF:	after 5 min of idleness (disabled)

MECHANICAL FEATURES:

Dimensions (L x W x H):	225 x 165 x 75mm
Weight (included batteries):	1.2kg
Mechanical protection:	IP40

WORKING ENVIRONMENTAL CONDITIONS:

Reference temperature:	23°C ± 5°C
Working temperature:	0°C ÷ 40°C
Allowed relative humidity:	<80%RH
Storage temperature:	-10°C ÷ 60°C
Storage humidity:	<80%RH
Max height of use:	2000m

GENERAL REFERENCE STANDARDS:

Safety of measuring instruments:	IEC/EN61010-1, IEC/EN61010-031, IEC/EN61010-2-032
Product type standard:	IEC/EN61557-1-2-3-4-5-6-7-10
EMC :	IEC/EN61326-1
Technical documentation :	IEC/EN61187
Insulation:	double insulation
Pollution degree:	2
Measurement category:	CAT IV 300V to ground, CAT III 350V to ground max 600V among inputs

TEST VERIFIES REFERENCE STANDARDS:

Continuity test with 200mA:	IEC/EN61557-4
Insulation resistance:	IEC/EN61557-2
Earth resistance:	IEC/EN61557-5
Fault loop impedance:	IEC/EN61557-3
RCD test:	IEC/EN61557-6 (only Phase-Neutral-Ground systems)
Multifunction:	IEC/EN61557-10
Prospective short circuit current:	EN60909-0
Earth resistance on TN systems:	EN61936-1 + EN50522
Power quality:	EN50160

This instrument complies with the requirements of the European Low Voltage Directives 2014/35/EU (LVD), EMC Directive 2014/30/EU and RED 2014/53/EU Directive

This instrument complies with the requirements of the European 2011/65/EU (RoHS) and with the requirements of the European 2012/19/EU (WEEE)

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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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Kijk voor een overzicht van al onze diensten op euro-index.nl/diensten



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KWS® is een uniek servicesysteem voor uw meetinstrumenten met periodiek onderhoud en kalibratie tegen vaste, lage kosten. Via een gratis webportal (mijnkws.nl) heeft u altijd en overal beschikking over uw kalibratiecertificaten.

Verhuur van meetinstrumenten

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

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- Trainingen (individueel en klassikaal)
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Mobiele Service

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