

1. ELECTRICAL SPECIFICATIONS

Accuracy is calculated as [% rdg + (number of dgt) x resolution]. It is referred to 23°C ± 5°C, <80%RH

DC VOLTAGE

Range	Resolution	Accuracy	Input impedance	Overload protection
0.1 ÷ 999.9V	0.1V	±(1.0%rdg + 3dgt)	1MΩ	1000VDC/ACrms

AC (AC+DC) TRMS VOLTAGE

Range	Resolution	Accuracy	Input impedance	Overload protection
		±(1.0%rdg + 3dgt)	1MΩ	1000VDC/ACrms

Max crest factor: 1.41, Fundamental: 50/60Hz ± 15%, Frequency bandwidth: 42.5Hz ÷ 1725Hz

AC/DC VOLTAGE – MAX/MIN/CREST

Range	Resolution	Accuracy	Response time	Overload protection
0.5 ÷ 999.9V	0.1V	±(3.5%rdg + 5dgt)	1s	1000VDC/ACrms

Input impedance: 1MΩ, Max crest factor: 1.41, Fundamental: 50/60Hz ± 15%, Frequency bandwidth: 42.5Hz ÷ 1725Hz

DC CURRENT

Range	Resolution	Accuracy	Overload protection
0.1 ÷ 999.9A	0.1A	±(2.0%rdg + 5dgt)	1000ADC/ACrms

AC (AC+DC) TRMS CURRENT

Range	Resolution	Accuracy	Overload protection
0.5 ÷ 999.9A	0.1A	±(1.0%rdg + 5dgt)	1000ADC/ACrms

Max crest factor: 1.41, Fundamental: 50/60Hz ± 15%, Frequency bandwidth: 42.5Hz ÷ 1725Hz

AC/DC CURRENT – MAX/MIN/CREST

Range	Resolution	Accuracy	Response time	Overload protection
0.5 ÷ 999.9A	0.1A	±(3.5%rdg + 5dgt)	1s	1000VDC/ACrms

Max crest factor: 1.41, Fundamental: 50/60Hz ± 15%, Frequency bandwidth: 42.5Hz ÷ 1725Hz

DYNAMIC INRUSH CURRENT DC, AC+DC TRMS

Range	Resolution	PEAK Accuracy	Max RMS Accuracy	Overload protection
1.0 ÷ 99.9A	0.1A	±(2.0%rdg + 5dgt)	±(2.0%rdg + 5dgt)	1000ADC/ACrms
10 ÷ 999A	1A			

Crest factor: 3, Sample frequency: 4kHz, Response time: Peak: 1ms, Max RMS : calculated on: 16.7, 20, 50, 100, 150, 200ms
Accuracy declared for frequency: DC, 42. ... 69Hz

RESISTANCE AND CONTINUITY TEST

Range	Resolution	Accuracy	Buzzer	Overload protection
0.0Ω ÷ 199.9Ω	0.1Ω	±(1.0%rdg + 5dgt)	1Ω ÷ 150Ω	1000VDC/ACrms 1000ADC/ACrms
200Ω ÷ 1999Ω	1Ω			
2.00kΩ ÷ 19.99kΩ	0.01kΩ			
20.0kΩ ÷ 29.9kΩ	0.1kΩ			

FREQUENCY WITH TEST LEADS AND WITH JAWS

Range	Resolution	Accuracy	Overload protection
42.5 ÷ 69.0Hz	0.1Hz	±(1.0%rdg + 5dgt)	1000VDC/ACrms 1000ADC/ACrms

Voltage range for frequency measurement: 0.5 ÷ 1000V / Current range for frequency measurement with jaws : 0.5 ÷ 1000A



PHASE SEQUENCE AND PHASE CONFORMITY

Voltage range	Frequency range	Overload protection
100 ÷ 1000V	42.5 ÷ 69Hz	1000VDC/ACrms

Input impedance: 1MΩ

DC POWER

Range [kW]	Resolution [kW]	Accuracy
0.00 ÷ 99.99	0.01	±(3.0%rdg + 3dgt)
100.0 ÷ 999.9	0.1	

Input impedance: 1MΩ, Accuracy defined for voltage > 10V, current ≥ 2A

ACTIVE POWER, APPARENT POWER AC (AC+DC TRMS)

Range [kW, kVA]	Resolution [kW, kVAR, kVA]	Accuracy
0.00 ÷ 99.99	0.01	±(2.0%rdg + 3dgt)
100.0 ÷ 999.9	0.1	

Input impedance: 1MΩ, Accuracy defined for: sinusoidal waveform, 42.5..69Hz, Voltage ≥ 10V, Current ≥ 2A, Pf ≥ 0.5

REACTIVE POWER AC (AC+DC TRMS)

Range [kVAR]	Resolution [kW, kVAR, kVA]	Accuracy
0.00 ÷ 99.99	0.01	±(2.0%rdg + 3dgt)
100.0 ÷ 999.9	0.1	

Input impedance: 1MΩ, Accuracy defined for: sinusoidal waveform, 42.5..69Hz, Voltage ≥ 10V, Current ≥ 2A, Pf ≤ 0.9

ACTIVE ENERGY AC (AC+DC TRMS)

Range [kWh]	Resolution [kWh]	Accuracy
0.00 ÷ 99.99	0.01	±(2.0%rdg + 3dgt)
100.0 ÷ 999.9	0.1	

Input impedance: 1MΩ, Accuracy defined for: sinusoidal waveform, 42.5..69Hz, Voltage ≥ 10V, Current ≥ 2A, Pf ≥ 0.5

REACTIVE ENERGY AC (AC+DC TRMS)

Range [kVARh]	Resolution [kVARh]	Accuracy
0.00 ÷ 99.99	0.01	±(2.0%rdg + 3dgt)
100.0 ÷ 999.9	0.1	

Input impedance: 1MΩ, Accuracy defined for: sinusoidal waveform, 42.5..69Hz, Voltage ≥ 10V, Current ≥ 2A, Pf ≤ 0.9

POWER FACTOR

Range	Resolution	Accuracy
0.20 ÷ 1.00	0.01	±(2.0%rdg+2dgt)

Input impedance: 1MΩ, Accuracy defined for: sinusoidal waveform, 42.5..69Hz, Voltage ≥ 10V, Current ≥ 2A

VOLTAGE AND CURRENT HARMONICS

Harmonic order	Fundam. Freq. [Hz]	Resolution [V], [A]	Accuracy (values not zeroed)
0	42.5 ÷ 69.0	0.1V /0.1A	±(5.0%rdg+20dgt)
1 ÷ 25			±(5.0%rdg+10dgt)
THD%		0.1%	±(10.0%rdg+10dgt)

The accuracy of harmonics amplitude expressed in % is evaluated considering the accuracy of the parameters ratio

(*) Voltage harmonics are zeroed in the below conditions:

- 1st harmonic: if value < 0.5V
- DC, 2nd to 25th harmonics: if harmonic value <0.5% of fundamental value or if value < 0.5V

Current harmonics are zeroed in the below conditions:

- 1st harmonic: if value < 0.5A
- DC, 2nd to 25th harmonics: if harmonic value <0.5% of fundamental value or if value < 0.5AV





HT9020

Rel. 2.00 - 24/09/24

AC+DC TRMS Power/Harmonic clamp up to 1000A

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WHERE
WE ARE



2. GENERAL SPECIFICATIONS

Mechanical characteristics:

Dimensions (L x W x H):	252 x 88 x 44mm
Weight (including battery):	420g
Max conductor size:	45mm

Power supply:

Battery type:	2 batteries 1.5V type AAA IEC LR03
Battery life:	approx. 150 hours of continuous use in power/energy measures
Auto Power Off:	approx. 5 minutes of idleness

Display:

Characteristics:	graphic dot matrix, 128x128pxl with backlight
Sample rate:	128 samples/period (@ 50Hz)
Display update rate:	1 times/sec
Conversion mode:	TRMS

Climatic conditions:

Reference temperature:	23°C ± 5°C
Operating temperature:	0°C ÷ 40°C
Operating humidity:	<80%RH
Storage temperature:	-10°C ÷ 60°C
Storage humidity:	<70%RH

Reference guidelines:

Comply with:	IEC/EN 61010-1, IEC/EN61010-2-032
EMC:	IEC/EN61326-1
Safety of test leads:	IEC/EN61010-031
Insulation:	double insulation
Pollution degree:	2
For inside use, max height:	2000m
Installation category:	CAT IV 600V to ground, max 1000V between inputs

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 2011/65/EU (RoHS) directive and 2012/19/EU (WEEE) directive



Diensten van EURO-INDEX

EURO-INDEX is fabrikant van BLAUWE LIJN en importeur/distributeur van diverse A-merken test- en meetinstrumenten. Wij leveren naast instrumenten ook de diensten om het gebruik hiervan in uw bedrijfsvoering te optimaliseren. Dit omvat uiteraard onderhoud, reparatie en kalibratie van instrumenten, maar ook kennisdeling via de EURO-INDEX Academy en verhuur van meetinstrumenten.

Geautoriseerd Service Centrum

EURO-INDEX is van de meeste merken in ons assortiment een Geautoriseerd Service Centrum. Dit betekent dat uw instrumenten worden behandeld door technici die zijn opgeleid door de fabrikant en beschikken over de juiste gereedschappen en software. Er worden uitsluitend originele onderdelen toegepast en de garantie van uw instrument blijft intact, net als de certificering (ATEX, EN50379, etc.).

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](#).



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

KWS®

KWS® is een unieke kalibratieformule voor uw test- en meetinstrumenten met periodiek onderhoud en kalibratie tegen vaste, lage kosten.

Uw kalibratiecertificaten zijn digitaal beschikbaar via Mijn KWS (gratis webportaal en app) en door de QR-code te scannen van de kalibratiesticker op het instrument.

Verhuur van meetinstrumenten

Er zijn diverse situaties waarbij huren handig is:

- U heeft tijdelijk extra toestellen nodig.
- Uw eigen meetinstrument wordt onderhouden en/of gekalibreerd.
- U moet een eenmalige meting verrichten.

EURO-INDEX Academy

- Trainingen (individueel en klassikaal)
- Cursussen, infosessies en workshops
- Demonstratie- en instructievideo's
- Whitepapers



Servicebalie



Onderhoud, reparatie en kalibratie



Cursussen en workshops



Kalibratielaboratorium

Wijzigingen voorbehouden EURO-INDEX® NL 26006



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