1. ELECTRICAL SPECIFICATIONS

Accuracy is indicated as ± [%rdg + (numbers of digits*resolution)] at 23°C ± 5°C, <80%HR

DC VOLTAGE

Range	Resolution	Accuracy	Input impedance	Overload protection
50.000mV	0.001mV	±(0.05%rdg+30dgt)	10MΩ // <100pF	1000VDC/ACrms
500.00mV	0.01mV	±(0.05%rdg+5dgt)		
5.0000V	0.0001V			
50.000V	0.001V			
500.00V	0.01V			
1000.0V	0.1V			

AC TRMS VOLTAGE

Range	Resolution	Accuracy (**) (Sinusoidal waveform)	Input impedance	Overload protection
50.000mV	0.001mV	±(0.7%rdg+20dgt) (40Hz ÷ 70Hz) ±(1.5%rdg+40dgt) (71Hz ÷ 10kHz)	10MΩ // <100pF	1000VDC/ACrms
500.00mV	0.01mV			
5.0000V	0.0001V	±(0.5%rdg+20dgt) (40Hz ÷ 70Hz) ±(1.5%rdg+40dgt) (71Hz ÷ 1kHz) ±(3.0%rdg+80dgt) (1.001kHz ÷ 10kHz)		
50.000V	0.001V			
500.00V	0.01V			
1000.0V (*)	0.1V			

Frequency range: 40Hz ÷ 10kHz ;
(**) For values <5% of each range add 20dgt to the accuracy
(*) Frequency range of this range: 40Hz ÷ 1kHz
For non-sinusoidal voltages, consider the following crest factors (CF):
1.4 ≤ FC < 2.0 → Add 1.0% reading to accuracy
2.0 ≤ FC < 2.5 → Add 2.5% reading to accuracy
2.5 ≤ FC ≤ 3.0 → Add 4.0% reading to accuracy
Accuracy in AC+DC mode: AC accuracy + DC accuracy + 1.0%reading
Accuracy in HFR mode: AC accuracy + 1.0%reading (40Hz ÷ 400Hz)
Cutting frequency in HFR mode: 800Hz (-3dB) ; Characteristic attenuation: approx. -24dB

DC CURRENT

Range	Resolution	Accuracy	Max. meas. time	Overload protection
50.000mA	0.001mA	±(0.05%rdg + 5dgt)	1min (input A) 10min (input mA)	max 440mA
1.0000A	0.0001A			

AC TRMS CURRENT

Range	Resolution	Accuracy	Max. meas. time	Overload protection
50.000mA	0.001mA	±(1.0%rdg + 20dgt) (40Hz ÷ 70Hz) ±(2.0%rdg + 20dgt) (71Hz ÷ 10kHz)	1min (input A) 10min (input mA)	max 440mA
1.0000A	0.0001A			

(*) For values <5% of each range add 20dgt to the accuracy ; Frequency range: 40Hz ÷ 10kHz
Input impedance: 0.1Ω (input A), 13Ω (input mA)
For non-sinusoidal currents, consider the same conditions of TRMS AC Voltage

RESISTANCE

Range	Resolution	Accuracy	Output current	Overload protection
500.00Ω	0.01Ω	±(0.2%rdg+30dgt)	1mA	1000VDC/ACrms
5.0000kΩ	0.0001kΩ	±(0.2%rdg+10dgt)	100µA	
50.000kΩ	0.001kΩ		10µA	
500.00kΩ	0.01kΩ	±(0.5%rdg+10dgt)	1µA	
5.0000MΩ	0.0001MΩ	±(1.0%rdg+10dgt)	100nA	
50.000MΩ (*)	0.001MΩ	±(2.0%rdg+10dgt)	10nA	

(*) Little instability for < 20 dgt
Max open voltage: approx 3.5V

CONTINUITY TEST

Range	Buzzer	Accuracy	Open voltage	Overload protection
500.0Ω	<30Ω	±(0.1%rdg+30dgt)	approx 3.5V	1000VDC/ACrms

DIODE TEST

Range	Test current	Accuracy	Open voltage	Overload protection
2.000V	±1mA	±(1.0%rdg+10dgt)	approx ±3V	1000VDC/ACrms

FREQUENCY AC VOLTAGE/CURRENT

Range	Resolution	Accuracy	Overload protection
500.00Hz	0.01Hz	±3dgt	1000VDC/ACrms max 440mA
5.0000kHz	0.0001kHz		
50.000kHz	0.001kHz		
100.00kHz	0.01kHz		

Minimum frequency value: 5Hz

Sensitivity of signal for frequency measurement

Function	Range	Sensitivity (peak to peak value)	
		5Hz ÷ 10kHz	10kHz ÷ 100kHz
AC mV	50.000mV	10mV	100mV
	500.00mV		
AC V	5.0000V	1V	1V
	50.000V	1V	not specified
	500.00V		
	1000.0V		
AC A	50.000mA	10mA	
	1.000A	300mA	

GENERATED DC CURRENT – Programmable output

Range	Resolution	Accuracy	Overload protection
0.000÷20.000mA	0.001mA	±(0.05%rdg+5dgt)	max 440mA
4.000÷20.000mA			

Power supply: battery level > 4.5V
External power supply simulated mode: 6V ÷ 48V

GENERATED DC CURRENT – Output ramp

Ramp type	Description	Action
	Linear slow ramp	0% →100% →0% in 40s
	Linear fast ramp	0% →100% →0% in 20s
	Step slow ramp	0% →100% →0% with steps of 15s
	Step fast ramp	0% →100% →0% with steps of 5s

Output voltage: 32.0VDC: Output voltage accuracy: ±5.0% of reading
Power supply: battery level > 4.5V
External power supply in simulation mode: 6V ÷ 48V

LOOP POWER (Loop current)

Function	Range	Accuracy	Driver	Overload protection
LOOP	50.000mA	±(0.05%rdg + 5dgt)	30V / 1.25kΩ	max 440mA
250Ω HART			24V / 1kΩ	

Output voltage: 32.0VDC: Output voltage accuracy: ±5.0% of reading
Power supply: battery level > 4.5V
External power supply in simulation mode: 6V ÷ 48V

2. GENERAL SPECIFICATIONS

Display:
- LCD display, 5 digit with maximum reading 50000 counts with sign, decimal point
- Automatic polarity indication
- "**OL**" over range indication

Features:
- Data HOLD
- MAX/MIN/AVG for maximum, minimum and average values
- Auto Backlight for automatic activation of backlit
- AUTOTEST for automatic detection of AC or DC measurements
- AC+DC for measurement of DC component overlapped to the alternate signal
- HFR for AC voltage measurement with 800Hz cut-off frequency
- Internal memory for saving/recall data
- RANGE for manual range selection
- REL for relative measurement
- Auto Power OFF after 20 minutes of idleness

Internal memory:
- Max 100 locations

Low battery indication:
- The symbol "  " appears when the battery voltage is low

Environmental conditions:
- Working temperature/humidity: -10°C ÷ 30°C, <85%RH
  30°C ÷ 40°C, <75%RH
  40°C ÷ 50°C, <45%RH
- Storage temperature/humidity: -20°C ÷ 60°C, <80%HR

General information:
- Max height of use: 2000m
- Pollution degree: 2
- Insulation: double insulation

Power supply:
- 4 x 1.5V alkaline batteries type AA IEC LR6

Sizes:
- 207(L)x95(W)x52(H) mm

Weight (included batteries):
- 630g

Applied standards:
- Safety: IEC/EN61010-1, EN61010-2-030
- Measurement category: CAT IV 600V – CAT III 1000V

This product conforms to the prescriptions of the European directive on low voltage 2006/95/EEC and to EMC directive 2004/108/EEC

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Meer info

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Naast de vaste kalibratielaboratoria in Capelle aan den IJssel en Zaventem beschikken wij ook over laboratoria op wielen met de naam “Mobiele Service”. Dit biedt vertrouwde service en kwaliteit, bij u voor de deur!

Meer info

KWS®

KWS® is een uniek servicesysteem voor uw meetinstrumenten met periodiek onderhoud en kalibratie tegen vaste, lage kosten. Uw kalibratiecertificaten zijn digitaal beschikbaar via Mijn KWS (gratis webportaal en app).

Meer info

Verhuur van meetinstrumenten

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

Meer info

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Onderhoud, reparatie en kalibratie

Cursussen en workshops

Mobiele Service

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