



1. ELECTRICAL SPECIFICATIONS

Accuracy is indicated as $\pm [\%rdg + (\text{numbers of digits} \times \text{resolution})]$ at $23^\circ\text{C} \pm 5^\circ\text{C}$, $<80\%HR$

DC VOLTAGE

| Range | Resolution | Accuracy | Overload protection |
|---------|------------|------------------------|---------------------|
| 60.00mV | 0.01mV | $\pm(0.08\%rdg+10dgt)$ | 1000VDC/ACrms |
| 600.0mV | 0.1mV | $\pm(0.08\%rdg+2dgt)$ | |
| 6.000V | 0.001V | | |
| 60.00V | 0.01V | | |
| 600.0V | 0.1V | | |
| 1000V | 1V | | |

Input impedance: $10M\Omega // <100pF$

AC TRMS VOLTAGE

| Range | Resolution | Accuracy (50Hz ÷ 1kHz) | Overload protection |
|---------|------------|------------------------|---------------------|
| 60.00mV | 0.01mV | $\pm(1.2\%rdg+5dgt)$ | 1000VDC/ACrms |
| 600.0mV | 0.1mV | $\pm(0.8\%rdg+5dgt)$ | |
| 6.000V | 0.001V | | |
| 60.00V | 0.01V | | |
| 600.0V | 0.1V | | |
| 1000V | 1V | | |

Input impedance: $10M\Omega // <100pF$

For non-sinusoidal voltages add the herewith correction on accuracies:

Crest factor $1.4 \div 2.0 \rightarrow$ add $1.0\%rdg$

Crest factor da $2.0 \div 2.5 \rightarrow$ add $2.5\%rdg$

Crest factor da $2.5 \div 3.0 \rightarrow$ add $4.0\%rdg$

Max crest factor: $3.0 (0 \div 3000 dgt)$; $2.0 (3000 \div 5000 dgt)$; $1.6 (5000 \div 6000 dgt)$

PEAK HOLD feature: specified accuracy $\pm 150dgt$

AC+DC TRMS VOLTAGE

| Range | Resolution | Accuracy (50Hz ÷ 1kHz) | Overload protection |
|---------|------------|------------------------|---------------------|
| 60.00mV | 0.01mV | $\pm(2.0\%rdg+10dgt)$ | 1000VDC/ACrms |
| 600.0mV | 0.1mV | $\pm(2.0\%rdg+5dgt)$ | |
| 6.000V | 0.001V | | |
| 60.00V | 0.01V | | |
| 600.0V | 0.1V | | |
| 1000V | 1V | | |

Input impedance: $10M\Omega // <100pF$

For non-sinusoidal voltages consider the indication of AC TRMS voltage

PEAK HOLD feature: specified accuracy $\pm 150dgt$

AUTO -V VOLTAGE (Voltage measurement with low impedance)

| Range | Resolution | Accuracy (50Hz ÷ 1kHz) | Overload protection |
|-----------|------------|------------------------|---------------------|
| 600.0V DC | 0.1V | $\pm(0.8\%rdg+3dgt)$ | 1000VDC/ACrms |
| 1000V DC | 1V | | |
| 600.0V AC | 0.1V | | |
| 1000V AC | 1V | | |

Input impedance: approx $3k\Omega$

For non-sinusoidal voltages consider the indication of AC TRMS voltage



DC CURRENT

| Range | Resolution | Accuracy | Overload protection |
|---------|------------|----------------------|---|
| 60.00mA | 0.01mA | $\pm(0.8\%rdg+3dgt)$ | Fuse 440mA/1kVAC/DC,10kA (input mA) Fuse 11A/1kVAC/DC,20kA (input A) |
| 600.0mA | 0.1mA | | |
| 6.000A | 0.001A | | |
| 10.00A | 0.01A | | |

AC TRMS CURRENT

| Range | Resolution | Accuracy (50Hz \div 1kHz) | Overload protection |
|---------|------------|-----------------------------|---|
| 60.00mA | 0.01mA | $\pm(1.2\%rdg+3dgt)$ | Fuse 440mA/1kVAC/DC,10kA (input mA) Fuse 11A/1kVAC/DC,20kA (input A) |
| 600.0mA | 0.1mA | | |
| 6.000A | 0.001A | | |
| 10.00A | 0.01A | | |

For non-sinusoidal current consider the indication of AC TRMS voltage
PEAK HOLD feature: specified accuracy $\pm 150dgt$

AC+DC TRMS CURRENT

| Range | Resolution | Accuracy (50Hz \div 1kHz) | Overload protection |
|---------|------------|-----------------------------|---|
| 60.00mA | 0.01mA | $\pm(2.0\%rdg+5dgt)$ | Fusibile 440mA/1kVAC/DC,10kA (ingresso mA) Fusibile 11A/1kVAC/DC,20kA (ingresso A) |
| 600.0mA | 0.1mA | | |
| 6.000A | 0.001A | | |
| 10.00A | 0.01A | | |

For non-sinusoidal current consider the indication of AC TRMS voltage
PEAK HOLD feature: specified accuracy $\pm 150dgt$

RESISTANCE

| Range | Resolution | Accuracy | Open voltage | Overload protection |
|-----------------|-----------------|----------------------|--------------|---------------------|
| 600.0 Ω | 0.1 Ω | $\pm(0.8\%rdg+5dgt)$ | <2.5V | 1000VDC/ACrms |
| 6.000k Ω | 0.001k Ω | $\pm(0.8\%rdg+2dgt)$ | <0.6V | |
| 60.00k Ω | 0.01k Ω | | | |
| 600.0k Ω | 0.1k Ω | | | |
| 6.000M Ω | 0.001M Ω | | | |
| 40.00M Ω | 0.01M Ω | $\pm(1.0\%rdg+5dgt)$ | | |

CONTINUITY TEST

| Range | Resolution | Accuracy | Overload protection |
|----------------|--------------|----------------------|---------------------|
| 600.0 Ω | 0.1 Ω | $\pm(0.8\%rdg+5dgt)$ | 1000VDC/ACrms |

Max open voltage: 2.5V
Max test current: approx 1mA
Active buzzer: R <30 Ω

DIODE TEST

| Range | Resolution | Accuracy | Open voltage | Overload protection |
|--------|------------|----------------------|--------------|---------------------|
| 2.000V | 1mV | $\pm(1.5\%rdg+2dgt)$ | <2.5V | 1000VDC/ACrms |

Max test current: 0.4mA



FREQUENCY

| Range | Resolution | Accuracy | Overload protection |
|-----------|------------|----------------------|---------------------|
| 100.00Hz | 0.01Hz | $\pm(0.1\%rdg+2dgt)$ | 1000VDC/ACrms |
| 1000.0Hz | 0.1Hz | | |
| 10.000kHz | 0.001kHz | | |
| 100.00kHz | 0.01kHz | | |

Minimum value read: 1Hz

Sensitivity: > 5.0Vp-p (ACV 1Hz ÷ 10kHz) ; > 10Vp-p (ACV 10kHz ÷ 100kHz) ; > 2mA_{p-p} (AC mA) ; > 0.2A_{p-p} (AC A)

CAPACITANCE

| Range | Resolution | Accuracy | Meas. Time | Overload protection |
|---------|------------|----------------------|------------|---------------------|
| 1.000μF | 0.001μF | $\pm(1.2\%rdg+2dgt)$ | <0.7s | 1000VDC/ACrms |
| 10.00μF | 0.01μF | | | |
| 100.0μF | 0.1μF | | | |
| 1.000mF | 0.001mF | | | |
| 10.00mF | 0.01mF | | | |
| | | | <3s | |

TEMPERATURE WITH TYPE K PROBE

| Range | Resolution | Accuracy (*) | Overload protection |
|-------------------|------------|-----------------------|---------------------|
| -40.0°C ÷ 400.0°C | 0.1°C | $\pm(1.0\%rdg+10dgt)$ | 1000VDC/ACrms |
| -40.0°F ÷ 752°F | 0.1°F | $\pm(1.0\%rdg+18dgt)$ | |

(*) Accuracy referred to the instrument without probe



2. GENERAL SPECIFICATIONS


Display:

- LCD display, 4 digit with maximum reading 6000 counts with sign, decimal point and bargraph
- Automatic polarity indication
- Backlight
- "OL" over range indication

Features:

- Data HOLD
- MAX/MIN for maximum and minimum value
- PEAK for peak measurement
- VOLTSENSE for AC voltage detection without contact
- AC+DC for measurement of DC component overlapped to the alternate signal
- AUTO-V for AC/DC voltage measurement with low impedance
- RANGE for manual range selection
- REL for relative measurement
- Auto Power OFF after 20 minutes of idleness

Low battery indication:

- The symbol " appears when the battery voltage is low

Environmental conditions:

- Working temperature/humidity: -10 °C ÷ 50 °C, <80%HR
- Storage temperature/humidity: -20 °C ÷ 60 °C, <80%HR

General information:

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

Power supply:

- 1 x 9V alkaline battery type NEDA1604, JIS006P, IEC6F22

Sizes:

- 190(L)x94(W)x48(H) mm

Weight (included batteries):

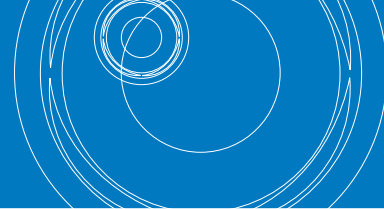
- 460g

Applied standards:

- Safety: IEC/EN61010-1, UL61010-1
- 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

Service van EURO-INDEX b.v.



EURO-INDEX b.v. verleent service op alle meetinstrumenten uit haar leveringspakket en biedt de faciliteiten, kennis en hoog gekwalificeerd personeel voor (preventief) onderhoud, reparatie en kalibratie van uw meetinstrumenten.

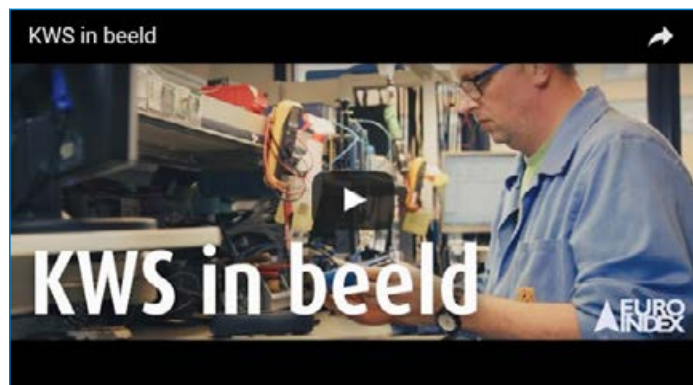
Geautoriseerd Service Centrum

EURO-INDEX b.v. is van alle vertegenwoordigde merken een Geautoriseerd Service Centrum.

Dit betekent dat uw instrumenten worden behandeld door goed opgeleid en kundig personeel, dat beschikt over de juiste gereedschappen en software. Er worden uitsluitend originele onderdelen toegepast en de garantie van uw instrument, evenals de certificering (ATEX, EN50379, etc.) blijven intact.

Service en kalibratielaboratorium

EURO-INDEX b.v. beschikt over een bijzonder modern service- en kalibratielaboratorium met RvA accreditatie naar NEN-EN-ISO/IEC 17025. Deze accreditatie geldt voor verschillende grootheden, zoals gespecificeerd in de scope bij accreditatienummer K105.



Bekijk de video en ontdek alles over KWS

KWS®

KWS is een uniek servicesysteem voor uw meetinstrumenten met periodiek onderhoud en kalibratie. Veel zaken worden voor u geregeld, zodat u zonder zorgen gebruik kunt maken van uw meetinstrumenten. De kosten zijn laag en voorspelbaar.

Digitale toegang tot uw kalibratiecertificaten met Mijn KWS

Via het Mijn KWS webportal heeft u altijd en overal beschikking over uw kalibratiecertificaten en gerelateerde documenten.

Verhuur van meetinstrumenten

- Uitgebreid assortiment
- Deskundig advies
- Instrumenten worden geleverd met accessoirepakket en herleidbaar kalibratiecertificaat

EURO-INDEX Academy

- Producttrainingen (individueel en klassikaal)
- Seminars
- Demonstratie- en instructievideo's



Servicebalie



Kalibratie rookgasanalyse



Seminars en workshops



Kalibratie thermografie

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