



1. ELECTRICAL SPECIFICATIONS

Accuracy is indicated as [% rdg + dgt]. It is referred to the following reference conditions: 23°C ± 5°C with RH < 75%.

DC Voltage

Range	Resolution	Accuracy	Input impedance	Overload protection
0.00 ÷ 59.99V	0.01V	±(0.7% rdg + 5 dgt)	3MΩ, <100pF	1000VACrms
60.0 ÷ 599.9V	0.1V			
600 ÷ 1000V	1V			

AC, AC+DC TRMS Voltage

Range	Resolution	Accuracy	Input impedance	Frequency range	Overload protection
0.00 ÷ 59.99V	0.01V	±(1.0% rdg + 5 dgt)	3MΩ, <100pF	45 ÷ 500Hz	1000VACrms
60.0 ÷ 599.9V	0.1V				
600 ÷ 1000V	1V				

Peak AC Voltage (Peak Max / Peak Min)

Range	Resolution	Accuracy	Overload protection
5.0 ÷ 84.9V	0.1V	±(3.0% rdg + 15 dgt)	1000VACrms
85 ÷ 1400V	1V		

Resolution for sine wave, ACV>5Vrms, frequency: 50 – 400Hz

DC Current

Range	Resolution	Accuracy	Overload protection
0.0 – 600.0A	0.1A	±(1.5% rdg + 5 dgt)	600Arms

Additional accuracy due to the position of the clamped cable: ±1.0% rdg

AC, AC+DC TRMS Current

Range	Resolution	Accuracy	Frequency range	Overload protection
0.0 – 600.0A	0.1A	±(1.5% rdg + 5 dgt)	45÷65Hz	600Arms
		±(2.5% rdg + 5 dgt)	66÷400Hz	

Additional accuracy due to the position of the clamped cable: ± 1.0%.

Peak AC Current (Peak Max / Peak Min)

Range	Resolution	Accuracy	Overload protection
5.0 ÷ 84.9A	0.1A	±(3.0% rdg + 15 dgt)	600Arms
85 ÷ 850V	1A		

Resolution for sine wave, ACA>5Arms, frequency: 50 – 400Hz

Inrush Current (INRUSH)

Range	Resolution	Accuracy	Overload protection
10.0 ÷ 59.9A	0.1A	±(2.5% rdg + 2A)	600Arms
60 ÷ 600.0A	1A	±(2.5% rdg + 5 dgt)	

Resolution for sine wave, ACA>10Arms, frequency: 50/60Hz
Integration period: approx 100ms



Frequency with test leads and with jaws

Range	Resolution	Accuracy	Input	Overload protection
20.0 ÷ 399.9Hz	0.1Hz	±(0.1% rdg+5 dgt)	5VACrms	1000VACrms
0.400kHz ÷ 4kHz	0.001kHz		5AACrms	600Arms

The instrument displays 0.0Hz if the input signal has frequency <10.0Hz

Total Harmonic Distortion THD% (Harmonics up to the 25th)

Function	Resolution	Accuracy	Overload protection
THD%	0 ÷ 100%	±(3.0% rdg+10 dgt)	1000VACrms / 600Arms

The instrument displays "rdy" if ACV<10VACrms or ACA<10AACrms

The instrument displays "out.F" if the fundamental frequency of the input signal is <45Hz or >65Hz

Active Power

Range	Resolution	Accuracy	Overload protection
0.015 ÷ 3.999kW	0.001kW	±(2.5% rdg + 5 dgt) (45 ÷ 65Hz)	1000VACrms / 600Arms
4.00 ÷ 39.99kW	0.01kW		
40.0 ÷ 399.9kW	0.1kW	±(3.5% rdg + 5 dgt) (66 ÷ 400Hz)	
400 ÷ 600kW	1kW		

Resolution for sine wave, ACV>10Vrms, ACA>5Arms, frequency: 45-65Hz, PF=1.00

Power Factor (Cosφ)

Range	Accuracy	Overload protection
-1.00 ÷ 0.00 ÷ 1.00	±3.0°	1000VACrms / 600Arms

Resistance and Continuity Test

Range	Resolution	Accuracy	Buzzer	Overload protection
0.0 ÷ 599.9Ω	0.1Ω	±(1.0% rdg + 5 dgt)	≤ 30Ω	600VACrms
0.600 ÷ 5.999kΩ	0.001kΩ			
6.00 ÷ 19.99kΩ	0.01kΩ			

Maximum open circuit voltage: 2.4V

Diode test

Range	Accuracy	Overload protection
0.00 ÷ 2.00V	±(1.0% rdg + 5 dgt)	600VACrms

Maximum open circuit voltage: 3.0V

Temperature

Function	Range	Accuracy	Overload protection
°C	-50.0 ÷ 399.9°C	±(1.0% rdg + 3°C)	600VACrms
	-400.0 ÷ 1000°C		
°F	-58.0 ÷ 751.9°F	±(1.0% rdg + 6°F)	
	-752.0 ÷ 1832°F		

Accuracy for environmental temperature variable within ±1°C




2. GENERAL SPECIFICATIONS

Mechanical characteristics

Size:	235(L) x 78(La) x 51(H)mm
Weight (including battery):	about 380g
Jaws opening:	45mm
Max conductor size:	35mm

Supply

Battery type:	1 battery 9V NEDA 1604 IEC 6F22 JIS 006P.
Low battery indication:	"  "
Battery life:	about 50 hours
Auto Power Off:	About 10 minutes after power-on

Display

Characteristics:	3 ⁵ / ₆ LCD (max 6000 counts), decimal point, unit symbol indication, bargraph and backlight
Sample rate:	3 times/sec
Conversion mode:	TRMS

Special function

Inrush current measurement
Automatic AC and DC detection
Continuity Beeper
Data Hold
Peak Hold (10ms)
Min Max Function
Auto Power off
DCA Zeroing Key

Climatic conditions

Reference temperature:	23° ± 5°C
Operating temperature:	0 ÷ 50 °C
Operating humidity:	< 75% RH
Storage temperature:	-20 ÷ 60 °C
Storage humidity:	< 80% RH
Temperature coefficient:	<0.2 x Specified accuracy /°C, <18°C, > 28°C

Reference standards

Comply with:	EN 61010-1
Insulation:	Class 2, Double insulation
Pollution:	Level 2
For inside use, max height:	2000m
Installation category:	CAT III 600V to the ground

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

