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 – 400.0V	0.1V	±(0.7% rdg + 2 dgt)	1MΩ, <100pF	1000V DC 750Vrms AC
400 - 1000V	1V			

Readings less than 10% of full scale: add ± 4 dgt to accuracy

AC Voltage TRMS

Range	Resolution	Accuracy	Input impedance	Frequency range	Overload protection
0 – 400.0V	0.1V	±(1.0% rdg + 5 dgt)	1MΩ, <100pF	50 - 500Hz	1000V DC 750Vrms AC
400 - 750V	1V				

Readings less than 15% of full scale: add ± 4 dgt to accuracy.
Readings more than 80% of full scale: add 1.6% to accuracy.
For non-sine wave measuring add to accuracy the following Crest Factor corrections:
± 1.0% for CF between 1.4 and 2.0
± 2.5% for CF between 2.0 and 2.5
± 4.0% for CF between 2.5 and 3.0.

AC Current TRMS

Range	Resolution	Accuracy	Frequency range	Overload protection
0 – 200.0A	0.1A	±(1.9% rdg + 3A)	50 - 400Hz	1000Arms
200.0 – 400.0A		±(1.9% rdg + 2A)		
400 – 1000A	1A	±(2.9% rdg + 5A)	50 - 200Hz	

Readings less than 10% of full scale: add ± 4 dgt to accuracy.
For non-sine wave measuring add to accuracy the following Crest Factor corrections:
± 1.0% for CF between 1.4 and 2.0
± 2.5% for CF between 2.0 and 2.5
± 4.0% for CF between 2.5 and 3.0.
Position error: ± 1.0%.

DC Current

Range	Resolution	Accuracy	Overload protection
0 – 200.0A	0.1A	±(2.9% rdg + 3A)	1000Arms
200.0 – 400.0A		±(1.9% rdg + 2A)	
400 – 1000A	1A	±(2.9% rdg + 5A)	

Position error: ± 1.0%

Resistance

Range	Resolution	Accuracy	Buzzer	Overload protection
0 – 400.0Ω	0.1Ω	±(1.0% rdg + 3 dgt)	≤ 30Ω	600Vrms AC

Max open voltage: 3V

Frequency (from clamp jaw)

Range	Resolution	Accuracy	Input	Overload protection
20 - 400Hz	1Hz	±(0.1%rdg + 2 dgt)	3 – 1000 A	1000Arms AC

2. GENERAL SPECIFICATIONS

Mechanical characteristics

Size:	275(L) x 90(La) x 51(H)mm
Weight (including battery):	about 420g
Jaws opening:	53mm
Max conductor size:	51mm

Supply

Battery type:	1 battery 9V NEDA 1604 IEC 6F22 JIS 006P.
Low battery indication:	"[+-]" is displayed when the battery level is too low.
Battery life:	about 200 hours.
AutoPowerOff:	About 30 minutes after power-on

Display

Characteristics:	3¾ LCD (max 4000 counts), decimal point, unit symbol indication, bargraph and backlight.
Sample rate:	1.5 times/sec.
Conversion mode:	TRMS.

Special function

Analog Bargraph
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 ÷ 40 °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 IV 600V, CAT III 1000V between inputs, CAT IV 600V, CAT III 1000V 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