1. ELECTRICAL SPECIFICATIONS

Accuracy is calculated as [% rdg + (number of dgt) x resolution]. It is referred to 18°C ÷ 28°C with 75%RH

DC Voltage (Autorange)

Range	Resolution	Accuracy	Input impedance	Overload protection
600.0mV	0.01mV	±(1.0%rdg + 3dgt)	10MΩ	1000VDC/ACrms
6.000V	0.001V			
60.00V	0.01V			
600.0V	0.1V			
1000V	1V			

AC Voltage TRMS (Autorange)

Range	Resolution	Accuracy	Input impedance	Bandwith	Overload protection
6.000V	0.001V	±(1.0%rdg + 4dgt) (50 ÷ 60Hz) ±(3.5%rdg + 5dgt) (61 ÷ 400Hz)	10MΩ	50 ÷ 400Hz	1000VDC/ACrms
60.00V	0.01V				
600.0V	0.1V				
1000V	1V				

Integrated sensor for AC voltage detection: LED turn on for phase-earth voltage > 100V, 50/60Hz

Resistance and Continuity test (Autorange)

Range	Resolution	Accuracy	Buzzer	Overload protection
600.0Ω	0.1Ω	±(1.0%rdg + 5dgt)	≤ 60Ω	600VDC/ACrms
6.000kΩ	0.001kΩ			
60.00kΩ	0.01kΩ			
600.0kΩ	0.1kΩ			
6.000MΩ	0.001MΩ			
60.00MΩ	0.01MΩ	±(2.0%rdg + 10dgt)		

Test current of continuity test: < 0.35mA

DC Current

Range	Resolution	Accuracy	Overload protection
60.00A	0.01A	±(2.2%rdg + 10dgt)	1000AACrms
600.0A	0.1A	±(2.0%rdg + 8dgt)	
1000	1A		

AC TRMS Current

Range	Resolution	Accuracy	Bandwith	Overload protection
60.00A	0.01A	±(2.2%rdg + 12dgt)	50 ÷ 60Hz	1000Arms
600.0A	0.1A	±(2.2%rdg + 8dgt)		
1000	1A			
60.00A	0.01A	±(3.5%rdg + 12dgt)	61 ÷ 400Hz	
600.0A	0.1A	±(3.5%rdg + 8dgt)		
1000	1A			

PEAK features: response time <10ms ; Accuracy: ±(5%rdg.+10dgt)

Capacitance (Autorange)

Range	Resolution	Accuracy	Overload protection
40.00nF	0.01nF	±(3.5%rdg + 40dgt)	600VACrms
400.0nF	0.1nF	±(2.5%rdg + 5dgt)	
4.000µF	0.001µF		
40.00µF	0.01µF		
400.0µF	0.1µF		
4000µF	1µF	±(5.0%rdg + 5dgt)	

Diode test

Feature	Test current	Open voltage
▶|	0.9mA typical	2.8VDC

Frequency with test leads (Autorange)

Range	Resolution	Accuracy	Sensitivity	Overload protection
99.99Hz	0.01Hz	±(1.0%rdg + 5dgt)	> 15Vrms	600VDC/ACrms 1000AACrms
999.9Hz	0.1Hz			
9.999kHz	0.001kHz			
60.00kHz	0.01kHz			

Frequency with jaws (Autorange)

Range	Resolution	Accuracy	Sensitivity	Overload protection
99.99Hz	0.01Hz	±(1.0%rdg + 5dgt)	≥10A (60A) ≥50A(600A)	600VDC/ACrms 1000AACrms
999.9Hz	0.1Hz			
9.999kHz	0.001kHz			

Duty Cycle (Autorange)

Range	Resolution	Sensitivity	Accuracy
0.5% ÷ 99.0%	0.1%	> 15Vrms	±(1.2%rdg + 2dgt)

Pulse width: 100µs ÷100ms ; Pulse frequency: 5.000Hz ÷100.0kHz

Temperature with type K probe (Autorange)

Range	Resolution	Accuracy (*)	Overload protection
-20.0÷400.0°C	0.1°C	±(2.0%rdg + 3°C)	600VDC/ACrms
400 ÷ 760°C	1°C	±(2.0%rdg + 5°C)	
-4.0 ÷ 752.0°F	0.1°F	±(2.0%rdg + 6°F)	
752 ÷ 1400°F	1°F	±(2.0%rdg + 9°F)	

(*) Accuracy of type K probe not considered

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2. GENERAL SPECIFICATIONS

Mechanical characteristics

Size:	252(L) x 88(La) x 44(H)mm
Weight (including battery):	442g
Max conductor size:	45mm

Supply

Battery type:	1 battery 9V NEDA 1604 IEC 6F22 JIS 006P.
Low battery indication:	"+ III" is displayed when the battery level is too low.
Battery life:	about 200 hours
AutoPowerOff:	about 15 minutes of idleness

Display

Characteristics:	4 LCD (max 6000 counts), decimal point, unit symbol indication, bargraph and backlight
Sample rate:	2 times/sec
Conversion mode:	TRMS

Climatic conditions

Reference temperature:	18°C ÷ 28°C
Operating temperature:	5 ÷ 40 °C
Operating humidity:	<80%RH
Storage temperature:	-20 ÷ 60 °C
Storage humidity:	<80%RH

Reference standards

Comply with:	IEC/EN 61010-1
Insulation:	double insulation
Pollution:	Level 2
For inside use, max height:	2000m
Installation category:	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

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