1. ELECTRICAL SPECIFICATIONS

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

DC VOLTAGE

Range	Resolution	Accuracy	Input impedance	Overload protection
600.0mV	0.1mV	±(1.0%rdg + 3dgt)	10MΩ	600VDC/ACrms
6.000V	0.001V			
60.00V	0.01V			
600V	0.1V			

AC TRMS VOLTAGE

Range	Resolution	Accuracy	Input impedance	Bandwidth	Overload protection
600.0mV	0.1mV	±(1.0%rdg + 3dgt)	10MΩ	40Hz ÷ 400Hz	600VDC/ACrms
6.000V	0.001V				
60.00V	0.01V				
600.0V	0.1V				

Integrated sensor for AC voltage detection: LED turn on for phase-earth voltage > 25V, 50/60Hz
Accuracy for not sinusoidal waveform: ±(3.5%rdg + 5dgt), Max crest factor: 2, Fundamental: 50/60Hz

DC CURRENT

Range	Resolution	Accuracy	Overload protection
60.00A	0.01A	±(2.0%rdg + 5dgt)	400Arms
400.0A	0.1A		

AC TRMS CURRENT

Range	Resolution	Accuracy (*, **)	Bandwith	Overload protection
60.00A	0.01A	±(2.0%rdg + 5dgt)	40Hz ÷ 400Hz	400Arms
400.0A	0.1A			

(*) Accuracy specified from 2% to 100% of measurement range
(**) Error due to not centered cable <±1.5%rdg (@ sinusoidal waveform)
Accuracy for not sinusoidal waveform: ±(3.5%rdg + 5dgt), Max crest factor: 2, Fundamental: 50/60Hz

RESISTANCE AND CONTINUITY TEST

Range	Resolution	Accuracy	Buzzer	Overload protection
600.0Ω	0.1Ω	±(1.0%rdg + 5dgt)	≤ 30Ω	600VDC/ACrms
6.000kΩ	0.001kΩ			
60.00kΩ	0.01kΩ			
600.0kΩ	0.1kΩ			
6.000MΩ	0.001MΩ			
60.00MΩ	0.01MΩ	±(1.2%rdg + 3dgt)		

CAPACITANCE

Range	Resolution	Accuracy	Overload protection
60.00nF	0.01nF	±(3.0%rdg + 5dgt)	600VDC/ACrms
600.0nF	0.1nF		
6.000µF	0.001µF		
60.00µF	0.01µF		
600.0µF	0.1µF		
6.000mF	0.001mF		

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DIODE TEST

Function	Resolution	Open voltage	Overload protection
→|←	0.001V	>3VDC	600VDC/ACrms

FREQUENCY WITH TEST LEADS AND JAWS

Range	Resolution	Accuracy	Sensitivity	Overload protection
60.00Hz	0.01Hz	±(1.0%rdg + 5dgt)	≥0.1Vrms ≥1Arms	600VDC/ACrms 400ADC/ACrms
600.0Hz	0.1Hz			
6000Hz	1Hz			
60.00kHz	0.01kHz			

Frequency range: 10Hz ÷ 60kHz

DUTY CYCLE

Range	Resolution	Resolution	Sensitivity
1.0% ÷ 99.0%	0.1%	±(1.2%rdg+2dgt)	≥3Vp-pVrms / ≥1Arms

TEMPERATURE WITH TYPE K PROBE

Range	Resolution	Accuracy (*)	Overload protection
-50.0°C ÷ 599.9°C	0.1°C	±(2.0%rdg+3dgt)	600VDC/ACrms
600 ÷ 760°C	1°C	±(2.0%rdg+5dgt)	
-58.0°F ÷ 1111.8°F	0.1°F	±(2.0%rdg+5.4dgt)	
1112F ÷ 1400°F	1°F	±(2.0%rdg+9dgt)	

(*) Accuracy of type K probe not considered

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2. GENERAL SPECIFICATIONS

Mechanical characteristics	
Size (L x W x H):	220 x 81 x 42mm
Weight (including battery):	320g
Max conductor size:	30mm
Mechanical protection:	IP40
Supply	
Battery type:	3x1.5V batteries type AAA LR03
Battery life:	ca 40 hours (backlight ON), ca 240 hours (backlight OFF)
Low battery indication:	"  " symbol is displayed
Auto Power OFF:	after 15 minutes of idleness (disabled)
Display	
Characteristics:	4 LCD (max 6000 counts), sign, decimal point, backlight
Sample rate:	3 times/sec
Conversion mode:	TRMS
Climatic conditions	
Reference temperature:	18°C ÷ 28°C
Operating temperature:	0°C ÷ 40°C
Operating humidity:	<75%RH
Storage temperature:	-10°C ÷ 50°C
Storage humidity:	<75%RH
Reference guidelines	
Safety:	IEC/EN61010-1, IEC61010-2-032, IEC61010-2-033
EMC:	IEC/EN61326-1
Insulation:	double insulation
Pollution level:	2
For inside use, max height:	2000m
Measurement category:	CAT III 600V to ground

This instrument satisfies the requirements of Low Voltage Directive 2014/35/EU (LVD) and of EMC Directive 2014/30/EU
This instrument satisfies the requirements of 2011/65/EU (RoHS) directive and 2012/19/EU (WEEE) directive

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