

T2100

Rel. 3.00 of 12/02/20

Clamp meter for earth resistance measurements

Pag 1 of 2

1. REFERENCE CONDITIONS

Parameter	Reference condition
Environmental temperature	20°C ± 3°C
Relative humidity	50%RH ± 10%
Battery voltage	6V ± 0.5V
External magnetic field	<40A/m
External electric field	<1V/m
Clamp positioning	Horizontal
Position of the conductor in the clamp	Centred
Closeness to metal masses	> 10cm
Loop resistances	None
Measured sinusoidal current frequency	50Hz
Distortion percentage	<0.5%
Disturbance current in resistance measurement	None

2. ELECTRICAL SPECIFICATIONS

Accuracy is indicated as [% rdg + values]. It is referred to reference conditions

Resistance

Range [Ω]	Resolution [Ω]	Accuracy
0.010 ÷ 1.999	0.001	±(1.5%rdg + 0.01Ω)
2.00 ÷ 19.99	0.01	±(1.5%rdg + 0.1Ω)
20.0 ÷ 199.9	0.1	±(3%rdg + 2Ω)
200 ÷ 499	1	±(5%rdg + 5Ω)
500 ÷ 799		±(10%rdg + 10Ω)
800 ÷ 1200		±(20%rdg + 20Ω)

If measured resistance is $\geq 1200\Omega$, the display shows "OL"; Resistance measuring frequency: >1kHz
Measuring range of resistance alarm threshold setting: 1Ω ÷ 199Ω




3. GENERAL SPECIFICATIONS

Mechanical specifications

Dimensions (L x W x H):	293 x 105 x 54mm (12 x 4 x 3in)
Weight (including battery):	1120g (47 ounces)
Max conductor size:	31mm (1in)
Max bar size:	48 x 31mm (2 x 1in)
Mechanical protection:	IP20

Mains supply

Battery type:	4 x1.5V alkaline LR6 AA MN1500
Low battery indication:	"  "
Auto power OFF:	about 5 minutes of idleness

Display

Characteristics:	4 LCD, sign and decimal point with backlight
Sample rate:	1 times/sec

Internal memory

Memory capacity:	99 locations
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Serial communication

RS-232 interface:	Half-duplex, baud rate 4800 baud
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Climatic conditions

Reference temperature:	20°C ± 3°C ; (68°F ± 37°F)
Operating temperature:	0°C ÷ 40°C ; (32°F ÷ 104°F)
Operating humidity:	10%RH ÷ 90%RH
Max height of use:	2000m ; (6562ft)

Reference guideline

Safety:	IEC/EN 61010-1, IEC/EN61010-2-032
EMC:	IEC/EN61326-1
Earth resistance:	IEC/EN61557-4 (partial), IEC60364-6 Appendix C.3
Insulation:	double insulation
Pollution degree:	2
Installation category:	CAT IV 300V, CAT III 600V to earth, Max. 20A

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 European Directive 2011/65/EU (RoHS) and 2012/19/EU (WEEE)