

# EARTH RESISTANCE TESTER

Model : ET-3000

ISO-9001, CE, IEC1010

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02-2389-0101



- \* Earth Resistance and Earth Voltage measurement.
- \* 3 ranges for earth resistance measurement  
19.99 Ω, 199.9 Ω, 1.999 K Ω.
- \* 0 to 199.9 V for earth voltage measurement.
- \* 18 mm, large size LCD display.
- \* Data hold.
- \* Built-in over input indication.
- \* Durable & portable housing plastic case with the front protective cover.
- \* Complete testing accessories included.

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*The Art of Measurement*

# EARTH RESISTANCE TESTER

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## FEATURE

- \* Earth Resistance and Earth Voltage measurement.
- \* Manual power On/Off or auto power Off within two minutes after power On.
- \* 3 ranges for earth resistance measurement, 19.99  $\Omega$ , 199.9  $\Omega$ , 1.999 K  $\Omega$ .
- \* Built-in over input indication.
- \* 0 to 199.9 V for earth voltage measurement.
- \* Durable & portable housing plastic case with the front protective cover.
- \* 18 mm, large size LCD display, easy to read-out.
- \* Data hold function to freeze the display reading value.
- \* Complete testing accessories included.
- \* LSI circuit provides high accuracy, reliability and durability.

## GENERAL SPECIFICATION

Display	18 mm (0.7") LCD ( Liquid Crystal Display). Max. indication 1999.
Function	Earth Resistance & Earth Voltage measurement.
Response Time	4 seconds on earth resistance range approximately.
	1 seconds on earth voltage range approximately.
Input Terminals	3 terminal input ( E/P/C Terminals ).
Over input Indication	Indication of " 1 . ".
Data Hold	To freeze the display reading value.
Safety Standard	IEC1010.
Overload Protection	* 200V AC for 10 seconds across 2 of the 3 terminals for Earth Resistance measurement.
	* 300V AC for 1 minute on Earth Voltage range.
Insulation Resistance	More than 5 Meg $\Omega$ between the circuit and the housing case when measured with 500 DCV.
Power Management	Manual power On/Off or auto power
	Off within 2 minutes after power On.
Operating Temp.	0 to 50 $^{\circ}\text{C}$ ( 32 to 122 $^{\circ}\text{F}$ ).
Operating Humidity	Less than 80 % R.H.
Power Supply	DC 9V, 1.5V AA ( UM-3 ) batteries x 6 PCs. @ Alkaline or heavy duty battery.
Power Consumption	Earth Resistance @ at 1,900 $\Omega$ on 2,000 $\Omega$ range * Approx. 74 mA for stand-by condition * Approx. 84 mA for ON condition
	Earth Voltage Approx. 82 mA for stand-by condition.
Dimension	160 x 120 x 65 mm ( 6.3 x 4.7 x 3.3 inch )
Weight	Approx. 560 g (1.2 LB).
Standard Accessories	Plug with alligators clips ( Red, Green, Black ) Red wire with red plug AL-3KR..... 1 PC Green wire with Green plug AL-3KG..... 1 PC Black wire with black plug AL-3KB..... 1 PC Auxiliary Earth Spikes SP-3K..... 2 PCs Carrying case ( CA-3K )..... 1 PC

## ELECTRICAL SPECIFICATIONS (23 $\pm$ 5 $^{\circ}\text{C}$ )

Function	Range	Resolution	Accuracy
Earth Resistance	20 $\Omega$	0.01 $\Omega$	$\pm$ ( 2% rdg + 0.1 $\Omega$ ) @ 0~19.99 $\Omega$
	200 $\Omega$	0.1 $\Omega$	$\pm$ ( 2% rdg + 3 d ) @ above 20 $\Omega$
	2 K $\Omega$	1 $\Omega$ ( 0.001 K $\Omega$ )	
Earth Voltage	200 ACV ( 50, 60 Hz )	0.1 V	$\pm$ ( 1% rdg + 4 d )

\* Appearance and specifications listed in this brochure are subject to change without notice.

ET-3000+0209