

# Digital Earth Resistance Tester

## Technical Data



## MT330

The new MT330 is an ideal earth resistance tester for the measurement of earth rods and lighting conductors. New ranges have been included such as AC voltage measurement up to 750V and DC voltage up to 1000V, plus a 200kΩ resistance range. The large backlit dual display LCD indicates the range measured as well as the battery voltage. The advanced circuit design permits the instrument to operate with minimum influence from earth voltage and earth resistance of auxiliary spikes. The double mould rubber injection housing ensures that the meter can handle the rough terrain when used in the field while performing earth tests.

### Features Include:

- Indicates if Resistance of Auxiliary Spikes is within Tolerance
- Multimeter function reads 750V AC, 1000V DC and 200kΩ resistance
- Earth voltage to 200V
- Overrange indicator
- Zero adjustment of leads
- Overmould casing
- Large dual LCD display with bright backlight
- Data Hold function

### General Specifications

Earth Resistance Range	: 20Ω, 200Ω, 2000Ω
Display	: Large LCD with dual display
Multimeter Function Range	: 200kΩ, 750VAC, 1000VDC
Sampling Rate	: 2.5 times per second
Zero Adjustment	: Automatic adjustment
Overrange Indicator	: Number 1 of highest digit is displayed
Low Battery Indication	: The "⎓" is displayed when the battery voltage drops below the operating voltage.
Auto Power Off	: To conserve battery life, the meter will automatically turn off after approx. 15 minutes of non-use. To turn the meter back on, turn the rotary switch to OFF, then to the desired function.
Operating Temperature	: 0°C to 40°C (32°F to 104°F) and humidity below 80% RH
Storage Temperature	: -10°C to 60°C (14°F to 140°F) and humidity below 70% RH
Power Source	: 6 X 1.5V Size "AA" battery or equivalent (DC9V)
Dimensions	: 200(L) X 92(W) X 50(H) mm
Weight	: Approx 700g including battery
Accessories	: 4 sets Test kits, 3pcs iron rods, 6pcs battery, carrying case, manual.



Measurement	Range	Resolution	Accuracy		
Earth Resistance	20Ω	0,01Ω	± (2% + 10d)		
	200Ω	0,1Ω	± (2% + 3d)		
	2000Ω	1Ω	± (2% + 3 d)		
Earth Voltage	200V	0,1V	± (3% + 3 d)		
Measurement	Range	Resolution	Accuracy		Overload Protection
OHMS	200kΩ	0,1kΩ	± (1% + 2d)		250Vrms
Measurement	Range	Resolution	Accuracy	Input Impedance	Overload Protection
DC Voltage	1000V	1V	± (0,8% + 3d)	10MΩ	1000Vrms
AC Voltage (40Hz ~ 400Hz)	750V	1V	± (1,2% + 10d)	10MΩ	750Vrms