

TECHNICAL DATA



Features

- Autoranging ground resistance and leakage current measurements
- 0.001Ω resolution for low resistance measurements
- Basic accuracy of ± 0.01Ω
- Internal memory stores up to 99 readings
- User adjustable alarm threshold
- Display hold function
- Durable double molded conductor clamp
- 1.2" (30mm) jaw size for large ground rods
- Low battery indicator and auto shut off
- Cat. III 600V safety rating
- Includes 3 resistance calibration loops (1Ω, 5Ω and 10Ω), batteries, cleaning cloth, wrist strap and hard carrying case

Model	Description
MS2301	Clamp-on Ground Resistance Tester
R8888	Hard Carrying Case
MS2301-NIST	Clamp-on Ground Resistance Tester & NIST

Specifications

Ground Resistance

Range: 0.01 to 0.999Ω, 1 to 9.99Ω, 10 to 99.9Ω, 100 to 199.9Ω, 200 to 400Ω, 400 to 600Ω, 600 to 1200Ω

Accuracy: 0.01 to 0.999Ω: ±(1.5% +0.01Ω)
1 to 9.99Ω: ±(1.5% +0.1Ω)
10 to 99.9Ω: ±(2.0% +0.3Ω)
100 to 199.9Ω: ±(3.0% +1Ω)
200 to 400Ω: ±(6.0% +5Ω)
400 to 600Ω: ±(10% +10Ω)
600 to 1200Ω: ±(20% +20Ω)

Resolution: 0.001Ω, 0.01Ω, 0.1Ω, 1Ω, 5Ω, 10Ω, 20Ω

Current

Range: 100mA, 300mA, 1A, 3A, 10A, 20A

Accuracy: 100mA: ±(2.5% +1mA)
300mA: ±(2.5% +2mA)
1A: ±(2.5% +0.003A)
3A: ±(2.5% +0.01A)
10A: ±(2.5% +0.03A)
20A: ±(2.5% +0.05A)

Resolution: 0.1mA, 0.3mA, 0.001A, 0.003A, 0.01A, 0.03A

General Specifications

Range Selection: Autoranging

Sampling Time: 1 sec.

Display: 9,999 count LCD display

User Selectable Alarm: Yes (High and Low)

Display Hold: Yes

Internal Memory: Up to 99 datapoints

Autoshut off: Yes (after 5 mins, off)

Power Supply: 9V Battery

Battery Life: Approx. 10 hours of continuous use (Alkaline)

Low Battery Indicator: Yes

Jaw Opening: 1.2" (30mm)

Overvoltage Category: CAT. II 600V

Product Certifications: CE

Operating Temperature: 14 to 122°F (-10 to 50°C)

Storage Temperature: -4 to 140°F (-20 to 60°C)

Dimensions: 10.9 x 4.1 x 2.1" (276 x 104 x 54 mm)

Weight: 2.1lbs (1050g)