FLUKE. AEMC INSTRUMENTS EXTECH INSTRUMENTS Megger GREENLEE

Earth Ground Resistance Testers

- **Digital display**

Compact units measure the soil's resistance to electrical currents and are paired with insulated test leads connected to electrodes or probes buried in the soil. They generate an AC current that runs through the electrical system under test in addition to the probes to calculate resistance levels.

Help locate suitable areas to ground electrical systems and find underground areas that may cause corrosive damage to underground pipes and water lines. Used for utility stations, electrical distribution systems, industrial plants and facilities, and telecommunications systems.

2-, 3-, and 4-pole tests require probes or stakes in the soil. Selective tests use a clamp and probes. Stakeless tests use clamps and do not require ground probes or stakes, making them ideal for applications where driving a stake in the ground is not possible.

Kits include stakes and other accessories needed for efficient earth ground testing.

Earth Ground Resistance Range	Earth Resistance Tests	Test Current	Measuring Current	Maximum Earth Voltage	Number of Records Stored	Brand	Tester Only Item No.	Complete Kit Item No.
CAT II 300V								
0.020 to 19.99 kilohm	2-Pole; 3-Pole; 4-Pole; Selective; Stakeless	>50 mA	Greater Than 50mA	50 V AC	1,500	Fluke	**30JZ60**	**30JZ58**
0.020 to 300 kilohm	2-Pole; 3-Pole; 4-Pole; Selective; Stakeless	>50 mA	Greater Than 250mA	50 V AC	1,500	Fluke	**30JZ61**	**30JZ59**
CAT III 30V								
0 to 2000 ohm	2-Pole; 3-Pole; 4-Pole	0.1 mA to 10 mA	0.1 to 10mA	—	—	AEMC	**4GA30**	—
CAT III 1000V								
0.02/0.2/2 kilohm	2-Pole	2.5 mA	—	—	—	Extech	—	**9XKP5**
CAT IV 100V								
0.01 to 2000 ohm	2-Pole; 3-Pole; Stakeless	4.5 mA	4.5mA	100 V AC	0	Megger	**2MY25**	—
CAT IV 300V								
0.002/0.02/0.2/2 kilohm	2-Pole; 3-Pole; 4-Pole	2 mA	2mA	300 V AC	—	Extech	**13X132**	—
CAT IV 600V								
0.0001 to 1.2 kilohm	Stakeless	0 mA to 40 mA	0 to 40mA	600 V AC	300	Greenlee	**54WF67**	—

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Clamp-On Earth Resistance Testers

- **Max. ground resistance: 1,500 ohm**
- **Digital display**

Handheld instruments have clamp-on jaws that fasten around conductors connected to grounding points in an electrical system to measure resistance to current. Provide fast, accurate readings without physically touching conductors, or can be used with ground probes. Ideal for tight spaces, they confirm resistance levels of existing grounding points without disconnecting the electrical system before use, and help locate suitable areas to ground electrical systems. Applications include utility stations, electrical distribution systems, industrial plants and facilities, and telecommunications systems.

Leakage Current Range	Resistance Accuracy	Bluetooth Compatibility	Number of Records Stored	Brand	Item No.
CAT II 600V; CAT III 300V					
0.2 mA to 30 A	Low Range ±1.5%; High Range ±20%	Not Compatible	116	Extech	**1YB44**
CAT III 1000V; CAT IV 600V					
0.2 mA to 40 A	Low Range ±1.5%; High Range ±20%	Compatible	32,760	Fluke	**444A57**
CAT IV 600V					
0.2 mA to 40 A	Low Range ±1.5%; High Range ±25%	Compatible	2,000	Aemc Instruments	**463T93**
0.2 mA to 40 A	Low Range ±1.5%; High Range ±25%	Not Compatible	300	Aemc Instruments	**463T92**
0.5 mA to 35 A	Low Range ±1.5%; High Range ±35%	Not Compatible	256	Megger	**6MRN4**
0.5 mA to 35 A	Low Range ±1.5%; High Range ±35%	Compatible	2,000	Megger	**46AN65**

Megger

Insulation Breakdown Testers

- **Test voltage accuracy: ±2%**
- **Leakage current accuracy: ±5%**

Portable units measure the dielectric strength of electrical insulation to identify deterioration or leakage, and check ground circuit continuity. Test voltage is continuously adjustable with selectable 1-second or continuous testing. Features automatic shut down if voltage exceeds preset trip level with visual and audible alarms. Commonly used to test insulation in audio systems, food preparation and cooking appliances, dental and medical equipment, and other three-phase electrical devices. Comply with UL requirements for dielectric testing.

High Voltage Test	Leakage Current Range	Item No.
4 kV AC, 5 kV DC	0.3 to 12 mA, 0.43 to 17 mA	**3T876**
4 kV AC	0.3 to 12 mA	**3T875**