

GROUND TESTERS

Megger is the expert in ground resistance testing. From time saving clamp-on ground testers to specialty models for high sensitivity testing, we have the ground resistance tester to fit your application and budget.

The Megger line of ground resistance testers provides high accuracy, a broad testing range and fast, reliable measurements. Megger ground testers are easy to use and lightweight.

The next few pages will outline the full line of ground testing equipment that Megger has to offer.

Our staff of professionals will help with your technical grounding questions and recommend the ground tester that best fits your need. Call us at 866-254-0962 or search the web at us.megger.com.

DET3 CONTRACTOR SERIES



The DET3 Series of digital ground testing instruments from Megger is comprised of two models: an instrument for grounding and bonding tests and a unit that adds a current measuring function. With this added function, current on the ground rod can be measured for improved personnel safety and noise detection. The DET3TC includes the ART (Attached Rod Technique) method of testing which greatly reduces testing time.

These Megger digital ground testers are powered by eight AA batteries which give excellent testing time — the status of the batteries is given by a bar graph on the LCD. The Megger DET3 Series earth/ground testers is designed to meet stringent safety standards and is rated CAT IV 100V.

Each DET3 comes complete with test leads, stakes, batteries, calibration certificate and rugged polypropylene carry case.



SELECTION GUIDE FOR DET3 SERIES

	DET3TC	DET3TD
2-wire resistance	■	■
3-wire resistance	■	■
ART (attached rod technique) resistance measurement	■	
Resistance range	0.01 to 2000 2% ± 3d	0.01 to 2000 2% ± 3d
Ground voltage range	0 to 100 V	0 to 100 V
Ground current range (with optional current measuring clamp)	0.5 mA to 19.9 A	
Warranty (years)	2	2

WHAT'S IN THE DET3T NAME?

DIGITAL **E**ARTH **T**ESTER **3** **T**ERMINAL

D - Disposable Battery

C - Works with IClamp (optional)

DET3TC works with IClamp (not included)

GROUND RESISTANCE TEST EQUIPMENT



DET4T2 ENHANCED SERIES



These ground testers from Megger offer a comprehensive solution to ground resistance and soil resistivity testing needs. The instruments provide such functions as 2 pole, 3 pole, 4 pole, Attached Rod Technique (ART), stakeless, leakage current and ground noise voltage measurements. All models now include selectable output voltage (25 V or 50 V). The DET4TC2 and DET4TCR2 offer four selectable test frequencies (94, 105, 111 and 128 Hz) for improved testing in noisy environments.

An optional ICLAMP augments the traditional fall-of-potential measurement method with ART which allows electrode testing without disconnection and also leakage current measurement down to 1 mA. The VCLAMP, a second optional clamp, enables true stakeless measurements to be made where driving a stake is not practical.

The DET4TC2 and DET4TD2 are powered by eight AA batteries which give excellent testing time. The DET4TR2 and DET4TCR2 are powered from rechargeable AA cells. For added convenience on all four units, the battery status is displayed using a bar graph.

The Megger DET4T2 Series earth/ground testers is designed to meet stringent safety standards and is rated CAT IV 100V.

THE ART OF GROUND TESTING



Ground testing using the ART (Attached Rod Technique) method is more convenient and reduces testing time. Models DET3TC, DET4TC2 and DET4TCR2 include this additional testing capability.

A nagging problem with traditional ground testing has been the requirement to disconnect the utility connection. Using the ART method you can reliably measure a grounding electrode while still connected and prove it!

The ART method is more convenient and significantly reduces your testing time as much as 40 percent!

The DET4TC2 and DET4TCR2 offer ART capability as well as stakeless testing and of course 4, 3 and 2 pole testing.

Find out about the Professional Ground Testing Kit See page 16

WHAT'S IN THE DET4T NAME?

DIGITAL EARTH TESTER 4 TERMINAL

- R** - Rechargeable Battery
- D** - Disposable Battery
- C** - Works with Clamp
- 2** - Second generation

GROUND RESISTANCE TEST EQUIPMENT

SELECTION GUIDE FOR DET4T2 SERIES

	Model No.	DET4TD2	DET4TR2	DET4TC2	DET4TCR2
	Cat. No.	1000-347	1000-324	1000-345	1000-346
Tests	2-pole measurement	■	■	■	■
	3-pole measurement	■	■	■	■
	4-pole measurement	■	■	■	■
	Soil resistivity	■	■	■	■
	ART (attached rod technique) capability			■	■
	Stakeless (clamp-on) measurement capability			■	■
	Resistance range	0.01 to 20,000 Ω		0.01 to 200,000 Ω	
	Ground voltage range	0 to 100 V			
	Ground current range (with ICLAMP) capability	0.5 mA to 19.9 A			
Output	Selectable voltage (25/50 V)	■	■	■	■
	Test frequency	128 Hz		94, 105, 111, 128 Hz	
Power supply	Alkaline batteries	■		■	
	Rechargeable batteries		■		■
Noise rejection	40 V peak-to-peak	■	■	■	■
Safety rating	CAT IV 100 V	■	■	■	■
Ingress protection	Rated to IP54	■	■	■	■
Included accessories	Hard carry case	■	■	■	■
	test leads (49 ft, 33 ft, 10 ft) and spikes	■	■	■	■
	External ac/dc adapter		■		■
	Certificate of calibration	■	■	■	■
Warranty	2 year	■	■	■	■

SELECTION GUIDE FOR DET4T2 SERIES ACCESSORIES

Model No.	Cat. No.	Included Accessories							Battery	
		Hard carry case	4 Right-angle terminal adapters	Leads & spikes	External ac/dc Adapter	Field Calibrator	ICLAMP and VCLAMP	Earth/ground kit, C/N 6320-245	Disposable	Rechargeable
DET4TD2	1000-347	■	■	■					■	
DET4TR2	1000-324	■	■	■	■					■
DET4TC2	1000-345	■	■	■					■	
DET4TC2+Clamps	1000-365	■	■	■		■	■		■	
DET4TC2+Kit	1000-404	■	■	■		■	■	■	■	
DET4TCR2	1000-346	■	■	■	■					■
DET4TCR2+Clamps	1000-366	■	■	■	■	■	■			■
DET4TCR2+Kit	1000-405	■	■	■	■	■	■	■		■

GROUND RESISTANCE TEST EQUIPMENT



DET14C AND DET24C CLAMP-ON EARTH/GROUND TESTER



The DET14C and DET24C are advanced clamp-on ground testers used for measuring resistance of ground rods and associated installations. These instruments induce a test current into ground systems and measure ground resistance in multi-earth installations without the need to disconnect the electrical system. The technique effectively measures a loop resistance.

Hard-to-reach ground spikes are easily accessed with the instruments' short body length, a unique pre-test hold function, and display backlight for low light environments. The elliptical head shape greatly improves capacity enabling round cables up to 37 mm diameter and earth tapes (flat strip conductors) up to 50 mm wide to be clamped.

Good reliability is provided with smooth, flat core mating surfaces to prevent dirt build-up and ensure measuring integrity, and an extremely high battery life (24 hours continuous).

Both instruments feature date- and time-stamped test result storage reviewable on the large dual display. The DET24C offers a larger memory plus PC download capability.

- Elliptical clamp shape with 39 mm x 55 mm inner jaw dimensions.
- Low maintenance flat jaw interface.
- Excellent safety rating of CAT IV 600V.
- Automatic noise current warning safety feature.
- Resistance and current ranges - auto ranging.
- Automatic noise filter function.
- Backlit display.
- DET24C includes Bluetooth® and PowerDB Lite software.
- 1 year warranty



These instruments are supplied in a hard carry case together with a calibration check loop, 4 x AA alkaline batteries, quick-start guide and a full user guide on a CD. The DET24C is supplied in addition with Bluetooth® and Power DB Lite software on CD.



Smooth mating jaw surface



Large elliptical jaw allows testing at any angle



Backlit display



Largest jaw opening on the market

These instruments cannot be used to test an isolated electrode.

SELECTION GUIDE FOR DET14C AND DET24C

Model	Cat. No.	Ground resistance range	Power source	Memory capacity
DET14C	1000-761	0.05 Ω to 0.99 Ω 1.00 Ω to 9.99 Ω 10.0 Ω to 99.9 Ω 100.0 Ω to 199.9 Ω 200 Ω to 400 Ω 400 Ω to 600 Ω 600 Ω to 1200 Ω 1200 Ω to 1500 Ω	Battery	256 records
DET24C	1000-762			2000 records Downloadable via Bluetooth

GROUND RESISTANCE TEST EQUIPMENT



PROFESSIONAL GROUND TESTING KIT



(Can be used with any of the DET3 or DET4 models)

Contents:

- Red and black cable reels (50 m); yellow and green cable reels (30 m).
- Earth electrode lead (4 m green, 4 mm shrouded plug and large croc clip).
- Auger style spikes - 4.
- Fiberglass measuring tape, 50 m.
- Molded polyethylene carrying case.

ORDERING INFORMATION FOR THE GROUND TESTING KIT

Cat. No.	Description
6320-245	Electrode and soil resistivity stake and wire kit



DET2/2 HIGH SENSITIVITY MODEL



The DET2/2 offers 40 V tolerance and .001 resolution readings. Features include an interference filter (on/off) and test current control (high/low). But above all, the test current frequency is adjustable in half-Hertz increments over the full range from 105 to 160 Hz. If soil transients are affecting the measurement, a display annunciator alerts the user.

The extra capabilities of the DET2/2 will quickly prove indispensable when testing in extreme electrical environments around substations or heavy industrials.

ORDERING INFORMATION FOR DET2/2

Model	Cat. No.	Description	Range resistance	Power source	Display	Waranty
DET2/2	250202 (6410-593)	High Sensitivity Model	0.010 Ω - 19.99 kΩ	Rechargeable Battery	Digital	2 year