

DET4TD2 and DET4TR2 Digital Ground Testers



- IP54 rated
- 2, 3 and 4 point testing
- Selectable 25 V or 50 V output
- Dry cell or rechargeable versions
- Simple one button operation
- Robust carry case

DESCRIPTION

Megger's DET4 family of ground testing instruments offers a unique solution to your ground rod and soil resistivity testing needs. The standard instrument comes with, test leads, stakes, terminal adaptors for bare wire, batteries and calibration certificate delivered in a tough polypropylene carry case - everything you need to start testing in one kit.

The ground testers are rated to IP54 making it truly an outdoor instrument. The ground tester has been designed to be easy to use, a large selector switch makes selection of 2 pole, 3 pole or 4 pole test easy with gloved hands - and the design makes the fitting of shorting links to perform 2 pole tests a thing of the past. A large, clear, easy to read LCD display and thumb sized test button again makes the instrument particularly suited to the outdoor conditions of ground testing.

In addition to this ease of use the ground tester also automatically checks the connection and condition of the P spike and the C spike, indicating the status on the display. The instrument also includes a voltmeter to allow you to measure the ground voltage. The ground tester can measure resistance from 0.01 Ω through to 20 k Ω and earth voltages up to 100 V. To allow testing in noisy environments the instrument is capable of rejecting noise of up to 40 V peak to peak.

The DET4TD2 digital ground tester is powered from 8 AA batteries which are widely available and deliver excellent testing time. The DET4TR2 is powered from rechargeable AA cells. The battery charger is built in and the instrument is supplied with an AC/DC adaptor. For both instruments, the battery status is displayed using a bar-graph.

The Megger ground testers comply with stringent safety standards and are rated to 100 V CAT IV. They also have selectable 25 V or 50 V output for compliance with IEC 61557-5.

DET4TD2 and DET4TR2 Digital Ground Testers

SPECIFICATIONS

IP rating	IP54
C stake, P stake and noise check	Automatic
Noise rejection	40 V peak to peak
2 wire, 3 wire, 4 wire test	Yes, no shorting links required
Instrument output	
Voltage:	±25 V or ± 50 V at 94 Hz, 105 Hz, 111 Hz and 128 Hz
Current:	4.5 mA or 0.45 mA or 0.045 mA
Resistance range	2, 3, 4 pole: 0.01 Ω to 200 kΩ
Maximum probe resistance	
Rp limit:	100 kΩ (50 V output voltage)
Rc limit:	100 kΩ (50 V output voltage)
Limits reduced to 50 kΩ for 25 V output voltage	
Limits reduced to 5 kΩ for 0.01 Ω resolution	
Earth / ground voltage range	0 to 100 V ac
Earth / ground voltage accuracy	2% ±2 V
Display	3½ high contrast liquid crystal, backlit
Power supply	DET4T2 8 off AA (LR6) cells DET4TR2 8 off AA (LR6) NiMH rechargeable cells
Battery charger:	100-240 VAC (50/60 Hz)
Operating temperature range and humidity	-15 to +55 °C (5 °F to 131 °F)
Storage temperature range and humidity	-40 to +70 °C (-40 °F to 158 °F)

Safety

Complies with the requirements of IEC61010-1 100 V CAT IV between terminal pairs.

The CAT IV 100 V rating is dependant on the use of a leadset of at least this rating, for example the optional two wire leadset part number 1001-858.

EMC

In accordance with IEC61326-1

Compliance

Complies with the requirements of KEMA K85B.

Complies with the following parts of EN61557, "Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. - Equipment for testing, measuring or monitoring of protective measures".

Part 1 - General requirements

Part 5 - Resistance to earth

Dimensions

203 mm x 148 mm x 78 mm

Weight

1 kg

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ORDERING INFORMATION

Description	Part number
Product	
DET4TD2	DET4TD2
DET4TR2 (rechargeable)	1000-324
Included accessories	
Hard carry case	
Stake and wire kit (15 m, 10 m, 3 m)	
Right angle terminal adaptors (to connect bare wires to terminals)	
Battery charger (DET4TCR2 only)	

Description	Part number
Optional accessories	
Replacement hard carry case	5410-429
2 replacement earth test spikes (200 mm, 8 mm dia.)	6220-804
Replacement ground test leads (x4) for included kit (15 m, 10 m, 10 m, 3 m)	6220-806
Battery charger (DET4TCR2 only)	6280-370
Calibration check box (25 Ohm)	1000-435
Right angled terminal adaptor set	1012-511
Black crocodile clip (1)	6220-850
ETK50 2 x 50 m, 2 x 30 m, complete with spikes and tape measure, in a weather proof holdall	1010-177
Vehicle 12 V socket charger (rechargeable versions only)	6280-375
'Getting down to earth' A Megger guide to earth testing	21500-072
Leadset	1001-858