

# 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

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### 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  $\Omega$  through to 20 k $\Omega$  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.

## SPECIFICATIONS

<b>IP rating</b>	IP54
<b>C stake, P stake and noise check</b>	Automatic
<b>Noise rejection</b>	40 V peak to peak
<b>2 wire, 3 wire, 4 wire test</b>	Yes, no shorting links required
<b>Instrument output</b>	Voltage: $\pm 25$ V or $\pm 50$ V at 94 Hz, 105 Hz, 111 Hz and 128 Hz Current: 4.5 mA or 0.45 mA or 0.045 mA
<b>Resistance range</b>	2, 3, 4 pole: 0.01 $\Omega$ to 200 k $\Omega$ ART: 0.01 $\Omega$ to 200 k $\Omega$ Stakeless: 0.01 $\Omega$ to 200 $\Omega$
<b>Maximum probe resistance</b>	Rp limit: 100 k $\Omega$ (50 V output voltage) Rc limit: 100 k $\Omega$ (50 V output voltage)  Limits reduced to 50 k $\Omega$ for 25 V output voltage Limits reduced to 5 k $\Omega$ for 0.01 $\Omega$ resolution
<b>Earth / ground voltage range</b>	0 to 100 V ac
<b>Earth / ground voltage accuracy</b>	2% $\pm 2$ V
<b>Display</b>	3 1/2, high contrast liquid crystal, backlit
<b>Power supply</b>	DET4T2 8 off AA (LR6) cells DET4TR2 8 off AA (LR6) NiMH rechargeable cells Battery charger: 100-240 VAC (50/60Hz)

**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 100V 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

203 mm x 148 mm x 78 mm

**Dimensions** 1 kg

**Weight**

ORDERING INFORMATION			
Description	Order Code	Description	Order Code
DET4TD2	DET4TD2	Battery charger (DET4TCR2 only)	6280-370
DET4TR2 (rechargeable)	1000-324	Calibration check box (25 Ohm)	1000-435
<b>Included Accessories</b>		Right angled terminal adaptor set	6220-803
Hard carry case		Black crocodile clip (1)	6220-850
Stake and wire kit (15m, 10m, 3m)		Professional grounding testing kit 2 x 50 m, 2 x 30 m, 4 auger stakes, tape measure, in hard carry case	6320-245
Right angle terminal adaptors (to connect bare wires to terminals)		Vehicle 12 V socket charger (rechargeable versions only)	6280-375
Battery charger (DET4TCR2 only)		'Getting down to earth' A Megger guide to earth testing	21500-072
<b>Accessories</b>		Leadset	1001-858
Replacement hard carry case			
2 replacement earth test spikes (200 mm, 8 mm dia.)			
Replacement ground test leads (x4)			
for included kit (15 m, 10 m, 10 m, 3 m)			

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**CERTIFICATION ISO**  
Registered to ISO 9001:2000 Cert. no. Q 09290

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