DET3TC
Digital Ground Tester



- **IP54 rated**
- **2 and 3 point testing**
- **Selectable 25 V or 50 V output**
- **Complete with lead and stake kit**
- **Simple one button operation**
- **Hardwearing carry case**
- **Delivered with calibration certificate**
- **Attached Rod Technique (ART)**

DESCRIPTION

The new ground testing instrument family from Megger offers a unique solution to your ground stake testing needs. The complete kit of instrument, test leads, stakes, batteries and calibration certificate are delivered in a tough poly-propylene carry case - everything you need to start testing in one kit.

The ground rod tester is 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 or 3 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. Using the optional clamp around the ground rod connection allows the testing of the rod without the need for disconnection, leaving the earthing system intact during testing (ART). 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 of the P spike and 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 2000 Ω and earth voltages up to 100 V. To allow accurate testing in noisy environments the instrument is capable of rejecting noise of up to 40 V peak to peak.

The Megger digital ground tester is powered by eight AA batteries which are widely available and also give excellent testing time - the status of these batteries is given by a bar graph on the LCD display allowing you to decide when to change the batteries, before they expire.

The Megger ground testers are designed to meet stringent safety standards and are rated CAT IV 100 V.

ELECTRICAL SPECIFICATIONS

Ingress protection:
IP54

C spike check:
Automatic

P spike check:
Automatic

Noise check:
Automatic

Noise rejection:
40 V peak to peak

2-wire test:
Yes

3-wire test:
Yes

No disconnect testing (ART):
Yes, with optional MCC Clamp

Earth current range with MCC Clamp:
0.5 mA to 19.9 A

Earth current accuracy:
5% ±3 digits

Resistance range:
0.01 to 2000 Ω

Resistance accuracy:

2% ±3 digits

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 on 18 Ω range

Earth voltage range:

0 - 100 V a.c.

Earth voltage accuracy:
2% ±2 V

Display
LCD

Battery type:
8 off AA cells

Operating temperature range:
-15 to +55 °C

Storage temperature range:

-40 to +70 °C

Safety
IEC61010-1 CAT IV 100 V*

EN61557-1

EN61557-5

EMC
IEC61326-1

Dimensions:

203 x 148 x 78 mm (8 x 5.7 x 3.2 inches)

Weight:
1 kg

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

ORDERING INFORMATION

Item (Qty)	Order Code
Digital tester 2 and 3 terminal	DET3TC
Included Accessories	
Hard carry case	
Stake and wire kit	
Optional Accessories	
MCC Clamp	1010-516
MVC Clamp	1010-518
Right angled terminal adaptor set	1012-511
2 replacement earth test spikes (200 mm, 8 mm dia.)	6220-804
3 replacement test leads (15 m, 10 m, 3 m)	6220-805
'Getting down to earth' A Megger guide to earth testing	21500-072
Black crocodile clip (1)	6220-850
Leadset	1001-858
ETK30 3 pole earth test kit	1010-176

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OTHER TECHNICAL SALES OFFICES
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ISO STATEMENT
Registered to ISO 9001:2008 Cert. no. Q 09250
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