

# DET3TD

## 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

### DESCRIPTION

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

The ground 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 and 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. 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 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  $\Omega$  through to 2000  $\Omega$  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

|                                                                                  |                                                      |
|----------------------------------------------------------------------------------|------------------------------------------------------|
| <b>C spike check:</b>                                                            | Automatic                                            |
| <b>P spike check:</b>                                                            | Automatic                                            |
| <b>Noise check:</b>                                                              | Automatic                                            |
| <b>Noise rejection:</b>                                                          | 40 V peak to peak                                    |
| <b>2-wire test:</b>                                                              | Yes                                                  |
| <b>3-wire test:</b>                                                              | Yes                                                  |
| <b>Resistance accuracy:</b>                                                      | 2% $\pm$ 3 digits                                    |
| <b>Resistance range:</b>                                                         | 0.01 to 2000 $\Omega$                                |
| <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 on 18 $\Omega$ range |                                                      |
| <b>Earth voltage accuracy:</b>                                                   | 2% $\pm$ 2 V                                         |
| <b>Earth voltage range:</b>                                                      | 0 - 100 V a.c.                                       |
| <b>Test voltage:</b>                                                             | 25 V or 50 V, user selectable (factory setting 50 V) |
| <b>Test frequency:</b>                                                           | 128 Hz                                               |
| <b>Test current:</b>                                                             | 450 $\mu$ A or 4.5 mA                                |
| <b>Display:</b>                                                                  | LCD                                                  |
| <b>Battery type:</b>                                                             | 8 off AA cells                                       |
| <b>Battery life:</b>                                                             | 3 hours or 700 consecutive tests                     |

**Operating temperature range:** -15 to +55°C

**Storage temperature range:** -40 to +70°C

**Ingress protection:** IP54

### 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 at least this rating, for example the optional two wire leadset part number 1001-858

## ORDERING INFORMATION

| Item (Qty)                                              | Order Code |
|---------------------------------------------------------|------------|
| Digital tester 2 and 3 terminal                         | DET3TD     |
| <b>Included Accessories</b>                             |            |
| Hard carry case                                         |            |
| Stake and wire kit                                      |            |
| <b>Optional Accessories</b>                             |            |
| Right angled terminal adaptor set                       | 6220-803   |
| 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                                    | 6220-850   |
| Leadset                                                 | 1001-858   |

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