EUROPE'S LARGEST SELECTION OF TEST & MEASUREMENT EQUIPMENT FOR HIRE

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WHEN YOU CAN HIRE

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Megger.

DET4TC & DET4TCR Digital Ground Testers



- IP54 rated
- 2, 3 and 4 point testing
- Attached Rod Technique (ART)
- Stakeless measurements
- Complete with lead and stake kit
- Dry cell or rechargeable versions
- User selectable output voltage
- Simple one button operation
- Robust carry case
- Backlit display
- Delivered with calibration certificate

DESCRIPTION

The new Megger ground testing instrument family offers a comprehensive solution to your ground stake and soil resistivity testing needs. The complete kit comprising the instrument, test leads, stakes, batteries and calibration certificate are delivered in a tough carry case which has space to accommodate all the instrument accessories - everything you need to start testing in one kit.

The DET4TC and DET4TCR are designed for extended temperature range use with an IP54 rated enclosure making them genuinely outdoor instruments. The instrument provides all the functions required for ground system testing: 2 pole, 3 pole, 4 pole, Attached Rod Technique (ART), stakeless, leakage current and ground noise voltage measurement.

The instrument is easy to use with a large rotary selector switch and one-press test button, both of which permit operation with gloved hands. Unlike some instruments, the design negates the need for a shorting link when making two pole measurements. There are no hidden functions with the instrument: clearly labelled auxiliary controls are used to select the output voltage (50 V or 25 V where local standards apply) and to switch the backlight on or off.

The optional ICLAMP augments the traditional fall-ofpotential measurement method with ART (Attached Rod Technique) which allows electrode testing without disconnection and also leakage current measurements down to 1 mA. A second optional clamp, the VCLAMP, enables true stakeless measurements to be made in situations where driving stakes is not practical.

The clear, easy-to-read display provides excellent contrast and viewing angle making the instrument ideally suited to outdoor use. The display is backlit, extending the operational environment of the instrument to cable cellars and other dark locations.

The instrument offers a wide measurement range of 0.01 Ω to 20 k Ω , ground noise voltage measurement from 1 V to 100 V and ground current from 1 mA to 20 A. Accurate results can be obtained in electrically noisy environments since the instrument is capable of rejecting noise voltages of 40 V peak to peak.

The DET4TC Digital Ground tester is powered from 8 AA batteries which are widely available and deliver excellent testing time. The DET4TCR 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 display 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.

Megger.

SPECIFICATIONS

Ingress protection IP54

C stake, P stake and Noise check Automatic

Noise rejection 40 V pk to pk

2-wire, 3-wire, 4-wire test Yes, no shorting links required

No disconnect testing (ART) Yes, with ICLAMP

Stakeless measurement Yes, with ICLAMP and VCLAMP

Instrument output Voltage: ±25 V or ±50 V at 128Hz Current: 4.5 mA or 0.45 mA

Ground current range with clamp 0.5 mA to 19.9 A

Ground current accuracy 5% ±3 digits

Ground voltage range 0 to 100 V ac

Ground voltage accuracy $2\% \pm 2 V$

Resistance range 0.01 Ω to 20 $k\Omega$

Resistance accuracy2P measurements: 2% ±3 digits3P measurements: 2% ±3 digits4P measurements: 2% ±3 digitsART measurements: 5% ±3 digitsStakeless measurements: 7% ±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 voltageLimits reduced to 5 kΩ for 0.01 Ω resolution

Display

31/2 digit high contrast liquid crystal, backlit

Battery type DET4TC: 8 off AA (LR6) cells

DET4TCR: 8 off AA (LR6) NiMH rechargeable cells

Operating temperature range

-15°C to $+55^\circ C\,/\,5^\circ F$ to $131^\circ F$

Storage temperature range

 -40° C to $+70^{\circ}$ C / -40° F to 158° F

Safety

Complies with the requirements of EN61010-1 100V CAT IV between terminal pairs.

EMC

In accordance with IEC61326 including amendment No.1

Standards 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 (8in x 5.8in x 3in)

Weight 1kg (2.2lb)

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ORDERING INFORMATION

Item	Order Code.
Digital 2, 3 and 4 terminal ground tester	DET4TC
Regarchargeable digital 2, 3 and 4 terminal	
ground tester and external AC/DC adaptor	DET4TCR
Professional digital ground tester kit (DET4TC, V	VCLAMP and
ICLAMP, field calibration check for instrument a	and CLAMPS,
right angled adaptor kit)	DET4TC-KIT
Professional digital ground tester kit (DET4TCR,	, VCLAMP and
ICLAMP, field calibration check for instrument a	and CLAMPS,
right angled adaptor kit)	DET4TCR-KIT
Included Accessories	
Hard carry case	
Stake and wire kit (15m, 10m, 10m, 3m)	
External AC/DC adaptor (DET4TCR only)	
Optional Accessories	
Current measuring clamp and connecting lead	ICLAMP
Voltage inducing clamp, calibration check PCB	(two-clamp
measurements) and connecting lead	VCLAMP
Calibration check box	6220-824
Right angled terminal adaptor set	6220-803
Black crocodile clip (1)	TBA
Professional ground testing kit (2x 50m, 2x30m	, 4 auger stakes,
carry case)	6320-245
Auxilliary 12V socket charger (DET4TCR only)	6280-375
'Getting down to earth'	
A Megger guide to earth testing	21500-072

Item	Order Code.
Spares	
Replacement hard carry case	5410-429
Replacement calibration check PCB	
(two-clamp measurements)	6220-831
Replacement ground test stakes (x2)	
for included kit (200mm, 8mm dia)	6220-804
Replacement ground test leads (x4)	
for included kit (15m, 10m, 10m, 3m)	6220-806
Replacement auger stakes (x2)	
for professional kit	6220-839
Replacement cable reel (50m, red cable)	
for professional kit	6220-840
Replacement cable reel (50m, black cable)	
for professional kit	6220-841
Replacement cable reel (30m, green cable)	
for professional kit	6220-843
Replacement cable reel (30m, yellow cable)	
for professional kit	6220-842
Replacement external AC/DC adaptor	
(DET4TCR only)	6280-370

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All equipment is thoroughly checked prior to dispatch to ensure you receive it in full, safe working order. Your shipment will be securely packed and include manufacturer's instructions, accessories or consumables and a valid calibration certificate where appropriate. In addition, Inlec offer a 24 hour replacement service if you decide the equipment is not suitable for your application*.

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