

DET4TC2 and DET4TCR2 Digital Ground Testers



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

DESCRIPTION

Megger's DET4 family of ground testing instruments offers a comprehensive solution to your ground stake and soil resistivity testing needs. The standard instrument comes with test leads, stakes, terminal adaptors for bare wire, 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 DET4TC2 and DET4TCR2 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: variable frequency 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 test frequency (94 Hz, 105 Hz, 111 Hz and 128 Hz), output voltage (50 V or 25 V where local standards apply) and to switch the backlight on or off.

The optional MCC CLAMP augments the traditional fall-of-potential 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 MVC CLAMP, 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 a 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 and the user can select different test frequencies to minimise the effect of interference.

The DET4TC2 digital ground tester is powered from 8 AA batteries which are widely available and deliver excellent testing time. The DET4TCR2 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.

DET4TC2 and DET4TCR2 Digital Ground Testers

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 MCC CLAMP
Stakeless measurement	Yes, with MCC CLAMP and MVC CLAMP
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
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% ±2 V
Resistance ranges	
2, 3, 4 pole:	0.01 Ω to 20 kΩ
ART:	0.01 Ω to 200 kΩ
Stakeless:	0.01 Ω to 200 Ω
Resistance accuracy	
2P measurements:	2% ±3 digits
3P measurements:	2% ±3 digits
4P measurements:	2% ±3 digits
ART measurements:	5% ±3 digits
Stakeless measurements:	7% ±3 digits
Maximum probe resistance	
Rp limit:	200 kΩ (50 V output voltage)
Rc limit:	200 kΩ (50 V output voltage)
Limits reduced to 100 kΩ for 25 V output voltage	
Limits reduced to 5 kΩ for 0.01 Ω resolution	
Display	3.5 digit high contrast liquid crystal, backlit
Battery type	
DET4TC2:	8 off AA (LR6) cells
DET4TCR2:	8 off AA (LR6) NiMH rechargeable cells
Operating temperature range	
	-15 °C to +55 °C / 5 °F to 131 °F
Storage temperature range	
	-40 °C to +70 °C / -40 °F to 158 °F
Dimensions	203 mm x 148 mm x 78 mm (8 in x 5.8 in x 3 in)
Weight	1kg (2.2lb)

Safety

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

EMC

In accordance with IEC61326-1

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 AC and 1500 V DC - Equipment for testing, measuring or monitoring of protective measures".

Part 1 - General requirements

Part 5 - Resistance to earth

*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.

Services d'EURO-INDEX

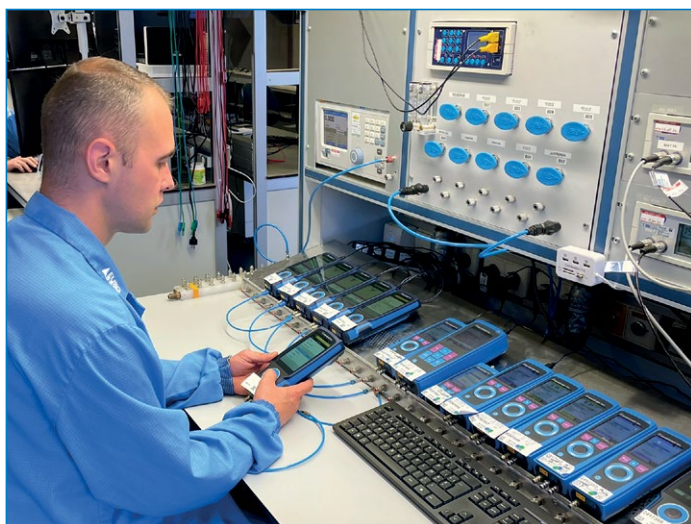
EURO-INDEX est le fabricant de la gamme LIGNE BLEUE et l'importateur/distributeur de diverses marques A d'instruments de test et de mesure. Nous proposons également un large éventail de services visant à optimiser l'utilisation de ces instruments dans le cadre de vos activités. Cela comprend la maintenance, la réparation et l'étalonnage des instruments, mais aussi le partage de connaissances via l'EURO-INDEX Academy et la location d'instruments.

Centre de Service Agréé

EURO-INDEX est un Centre de Service Agréé pour la plupart des marques de sa gamme. Cela signifie que vos instruments sont pris en charge par des techniciens formés par le fabricant et disposant des outils et logiciels adéquats. Seules des pièces d'origine sont utilisées et la garantie de votre instrument, ainsi que les certifications (ATEX, EN50379, etc.) restent intactes.

Laboratoire d'étalonnage

Notre laboratoire de service et d'étalonnage est accrédité BELAC conformément à la norme EN-ISO/IEC 17025. L'accréditation s'applique aux grandeurs et aux plages de mesure mentionnées dans l'annexe certifiée portant le numéro de certificat [760-CAL](#).



MQS®

MQS® est une formule d'étalonnage pour vos instruments de test et de mesure, comprenant un entretien et un étalonnage périodiques à un coût fixe et avantageux. Vos certificats d'étalonnage sont disponibles au format numérique via Mon MQS (portail web et application gratuits) et en scannant le code QR sur l'autocollant d'étalonnage de l'instrument.

Location d'instruments de mesure

Il existe plusieurs situations dans lesquelles la location est pratique :

- Vous avez temporairement besoin d'appareils supplémentaires.
- Votre propre instrument de mesure est en cours d'entretien et/ou d'étalonnage.
- Vous devez effectuer une mesure occasionnelle.

EURO-INDEX Academy

- Formations, sessions d'informations et workshops
- Vidéos de démonstration et d'instruction
- Notes d'application



Comptoir de service



Entretien, réparation et calibrage



Formations et séminars



Laboratoire d'étalonnage

Sous réserve de modifications EURO-INDEX® FR 26001



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