

DET14C & DET24C

Quick Start Guide

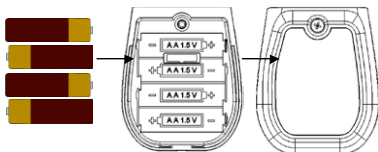
These safety warnings are provided to ensure the safety of personnel and proper operation of the instrument.

- Safety warnings and precautions must be read and understood before the DET14C / DET24C is used. They must be observed during use.
- Do not leave the DET14C / DET24C connected to the system under test when not in use.
- Do not touch circuit connections and exposed metalwork of the installation or equipment under test.
- Do not use the DET14C / DET24C or connect it to any external system if it shows any visible signs of damage, malfunction or if it has been stored in unfavourable conditions.
- Always keep body parts behind the tactile barrier on the handles of the DET14C / DET24C.
- Always inspect the DET14C / DET24C prior to every use. Replace any defective parts immediately or return the instrument to an authorised service centre for repair.
- Do not use the DET14C / DET24C or connect it to any external system if the casing is open or any parts of the case are missing.
- Do not use rechargeable batteries in this instrument.
- Always use caution when clamping the DET14C/DET24C on energised electrical conductors.
- Always use extreme caution when clamping around bare conductors: under fault conditions, high voltages and currents may be present and may pose a shock hazard.
- The DET14C / DET24C are not suitable for measuring AC currents in multicore cables or DC currents.
- The instrument should not be used if any part of it is damaged.
- This instrument is not intrinsically safe and must not be used in hazardous atmospheres.
- If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- Rechargeable batteries should not be used in this instrument.
- Use extreme caution when using the instrument in proximity to bare conductors. Avoid contact between the metal in the jaws and bare conductors. A short circuit would create an arc-flash explosion hazard.

OPERATION PRECAUTIONS

- It is important to keep the mating jaw surfaces clean as even small amounts of contamination can cause measurement problems
- It is important to not damage the mating jaw surfaces. Take care when clamping around electrodes as scratches on the mating surfaces will cause measurement problems
- It is important to avoid impacts to the clamp head as any damage will cause measurement problems
- Damage including scratches to the mating jaw surfaces is considered misuse and will invalidate the warranty

Insert batteries



Measurements

Resistance



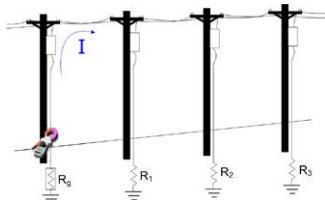
Range : 50 mΩ to 1500 Ω

Current



Range : 0.5 mA to 35 A

Ground resistance measurement



$$R_{eq} = (R1 \parallel R2 \parallel R3 \dots \parallel Rn)$$

$$R_{loop} = Rg + Req$$

Current (I) induced by voltage (V) is therefore:

$$I = V / (Rg + Req)$$

Measured value is $Rg + Req$.



This instrument is manufactured in the United Kingdom.

The company reserves the right to change the specification or design without prior notice.

Megger is a registered trademark

Part No. 2001-644 - DET14C--DET24C--2001-644_QS_en-fr-de-es-nl_V04

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