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Megger products are distributed in 146 countries worldwide.

This instrument is manufactured in the USA.  
The company reserves the right to change the  
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## ICLAMP USER GUIDE

### Safety Warnings

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 ICLAMP is used. They must be observed during use.
- **Do not leave** the ICLAMP 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 ICLAMP or connect it to any external system if it shows any visible signs of damage or if it has been stored for prolonged periods in unfavourable conditions.
- **Do not use** the ICLAMP or connect it to any external system if the casing is open or any parts of the case are missing.
- **Do not use** the ICLAMP or connect it to any external system if the ICLAMP lead is damaged in any way.
- **Do not use** the ICLAMP on live electrical conductors.
- **Always** connect the ICLAMP to the DET instrument before clamping it around the item being tested.
- **Always** inspect the DET instrument, ICLAMP and connection cable prior to every use. Replace any defective parts immediately.
- **Always** use extreme caution when clamping around bare conductors: under fault conditions, potentially high voltages and currents may be present and may pose a shock hazard.

### **NOTE: THE INSTRUMENT MUST ONLY BE USED BY SUITABLY TRAINED AND COMPETENT PERSONS.**

Users of this equipment and/or their employers are reminded that National Health and Safety Legislation requires them to carry out valid risk assessments of all electrical work so as to identify potential sources of electrical danger and risk of electrical injury such as inadvertent short circuits. Where the assessments show that the risk is significant then the use of fused test leads may be appropriate.

The safety warnings provided in this document are indicative of safe practice and shall not be considered exhaustive. Additionally, they are not intended to replace local safety procedures where the instrument is being used.

### Symbols used on the ICLAMP are:

-  Caution: refer to accompanying notes
-  Equipment protected throughout by Double Insulation (Class II)
-  Equipment complies with current EU directives

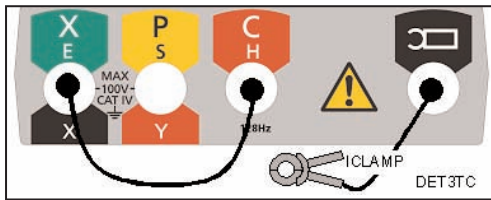
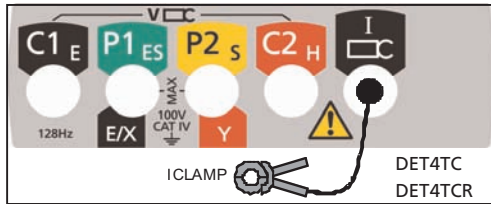
## PREPARATIONS FOR USE

1. Ensure that the ICLAMP jaw mating surfaces are free of dust and contamination and that they contact completely when the ICLAMP is closed.
2. Currents carried by conductors in close proximity to the ICLAMP may affect calibration and reduce the accuracy of measurements made.

## CALIBRATION OF THE ICLAMP

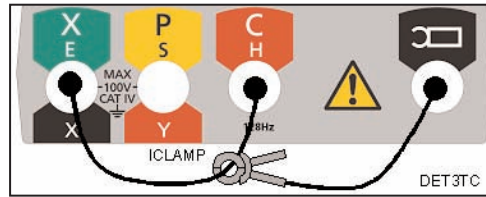
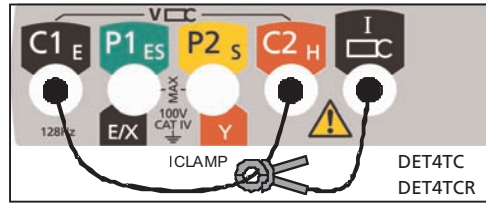
The ICLAMP should be calibrated once at each test site to take into account the effects of transportation, temperature and humidity on the ICLAMP.

1. Ensure the rotary selector switch is in the OFF position.
2. Connect the instrument as shown.



Connect the C1 and C2 terminals together using the calibration lead supplied with the ICLAMP [X and C terminals for DET3TC].

4. Ensure that the ICLAMP is not clamped around a conductor.
5. Press and hold the **TEST** button and switch instrument ON to the **A** setting using the selector switch.
6. Release the **TEST** button.
7. Press and hold the **TEST** button until a "0" reading is obtained on the display

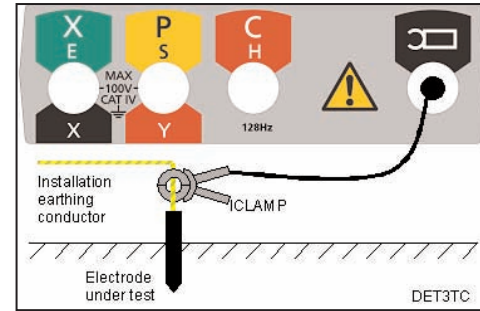
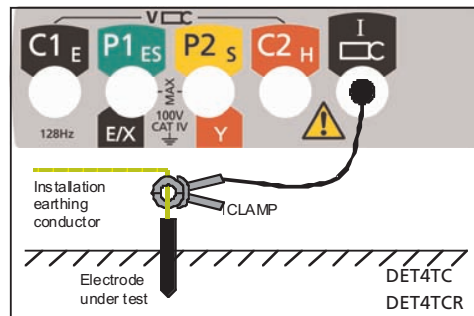


8. Close the ICLAMP around the calibration lead which connects the C1 and C2 terminals [X and C terminals for DET3TC].
9. Press and hold the **TEST** button until a "100" reading is obtained on the display.
10. Switch the instrument OFF using the selector switch.
11. The instrument is now calibrated to the ICLAMP and the calibration stored in non-volatile memory.

## OPERATION OF THE ICLAMP

### Measurement of ground current

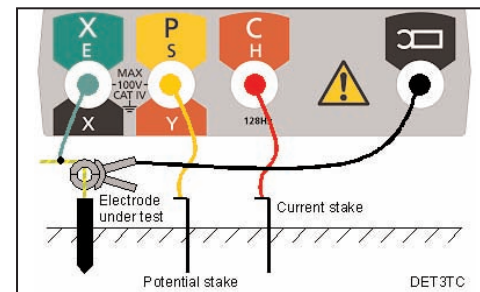
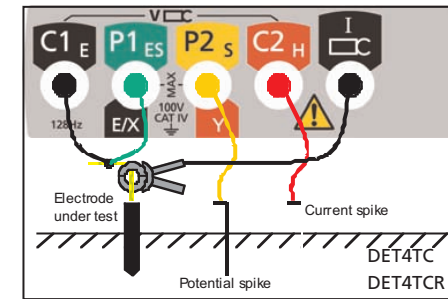
1. Ensure the rotary selector switch is in the OFF position.
2. Connect the instrument as shown.



3. Close the ICLAMP around the conductor under test.
4. Set the rotary selector switch to the **A** position.
5. The ground current flowing in the conductor will be displayed.

### Resistance measurement using ART

1. Ensure the rotary selector switch is in the OFF position.
2. Connect the instrument as shown.



3. Close the ICLAMP around the conductor under test.
4. Set the rotary selector switch to the 3P

or 4P position.

5. Press and release the **TEST** button [by holding the **TEST** button, the resistance measurement will be continually updated].
6. The instrument will perform pre-measurement checks, the status of which will be indicated on the display.
7. The three-terminal or four-terminal resistance reading using ART will be displayed.

## SPECIFICATIONS

**Measurement range:** 1 mA to 1200 A

**Transformation ratio:** 1000 : 1

**Output signal:** 1 mA / A (1 A @ 1000 A)

### Accuracy

1mA to 100 mA :  $\leq 3\%$  of reading  
 0.1 A to 1 A :  $\leq 2\%$  of reading  
 1 A to 10 A :  $\leq 1\%$  of reading  
 10 A to 100 A :  $\leq 0.5\%$  of reading

### Operating temperature

-10°C to +50°C / 14°F to 122°F  
 0% to 85% RH at +35°C / 95°F

### Storage temperature

-20°C to +70°C / -4°F to 158°F

**Jaw opening:** 57 mm maximum (2.3 in)

**Maximum conductor size:** 52 mm (2.1 in)

**Insulation:** Double insulation

**Voltage rating:** 600 V CAT III

**Current rating:** 1200 A for 20 minutes

**Ingress protection:** IP40

### Safety

EN61010-2-032

### EMC

EN 50081-1 Class B

EN 50082-2

**Dimensions:** 111 mm x 216 mm x 45 mm  
 (4.4 in x 8.5 in x 1.8 in)

**Weight:** 0.5 kg approximately (1.2lb)