**testo clamp meter adapter 0590 0003**

**Instruction manual [en]**

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**Overview**

- **Instrument**
  - Button for offset compensation
  - Clamp opener
  - Clamp meter
  - Battery compartment (at rear)
  - LED
  - ON/OFF button
  - Measuring cable to testo 760

**Explanation of icons**

- **Attention!** Warning about a danger spot, refer to instruction manual
- **Caution!** Dangerous voltage, risk of electric shock
- **Note!** The product is certified for the USA and Canada markets to applicable American and Canadian standards.
- **Continuous**
  - The instrument complies with the WEEE Directive (2012/16/ EU)
  - Application around and removal from HAZARDOUS LIVE conductors is permitted.

**Conformity mark, verifies compliance with the valid EU Directives: EMC Directive (2014/30/EU) with the standard EN 61326-1, Low Voltage Directive (2014/35/EU) with the standard EN 61010-2-032**

**Product specifications**

- **Transfer function** 1 mV per 1 A
- **DC accuracy (offset-compensated and conductor-centred)** ± (2% + 0.5 A) at -23 °C; ± 5 °C at <80% RH
- **AC accuracy** ± (2% + 0.5 A), 45-400 Hz, Crest Factor 3 at +23 °C; ± 5 °C at <80% RH
- **Temperature coefficient** ± (0.05 x specified accuracy per 1 °C; 0-18 °C; 28-50 °C)
- **Transfer function** ± 1 mV per 1 A
- **Height** 2000 mm
- **Measurement category** CAT IV/600 V, CAT III/1000 V
- **Level of contamination** Pollution class IP 40
- **Power supply** 3 x 1.5 V (AAA/IEC LR03)
- **Battery life** approx. 100 h (continuous operation with alkaline batteries)
- **Automatic power off function** after approx. 15 min. (APO)
- **Dimensions (Width x Depth x Height)** 110 x 100 x 42 mm
- **Temperature range** Storage: -15 to 60 °C
- **Humidity** 0 to 95% (0-30 °C) 0 to 75% (30-40 °C) 0 to 45% (40-50 °C)
- **Weight** Approx. 370 g

**Certifications**

- CE, CSA

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**Technical data**

**Specifications valid at 23 °C ± 5 °C; <80% relative humidity:**

- **Frequency range** 100 kHz
- **Measuring range**
  - Measuring direct currents (DC)
    - Measuring range 1.0-400 A AC RMS, 1-400 A DC
  - Compensated and conductor current
  - Measuring range 1.0-400 A AC RMS, 1-400 A DC
  - DC accuracy (offset-compensated and conductor-centred)
  - ± (2% + 0.5 A) at -23 °C; ± 5 °C at <80% RH
  - AC accuracy
  - ± (2% + 0.5 A), 45-400 Hz, Crest Factor 3 at +23 °C; ± 5 °C at <80% RH
  - Temperature coefficient
  - ± (0.05 x specified accuracy per 1 °C; 0-18 °C; 28-50 °C)
  - Transfer function
  - ± 1 mV per 1 A
  - Height
  - 2000 mm
  - Measurement category
  - CAT IV/600 V, CAT III/1000 V
  - Level of contamination
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  - Power supply
  - 3 x 1.5 V (AAA/IEC LR03)
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  - Weight
  - Approx. 370 g

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**Operating the instrument**

**Switching the instrument on**

- Press the on/off button briefly.
- The instrument switches on.

**Switching the instrument off**

- Press the on/off button briefly.
- Automatic switch-off: after approx. 15 minutes of no button being pressed.

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**Carrying out a test**

- The contents of the testo 760 documentation must have first been read and understood.
- **Measuring direct currents (DC)**
  - 1. Connect the testo 760 and clamp meter adapter to the measurement cables: black cable to the COM jack; red cable to jack V/Ω/diode/capacitance.
  - 2. Switch on the testo 760.
  - 3. Activate DC mV measuring mode for current measurement: press key V 4 x.
  - 4. Switch on the clamp meter adapter.
  - A green or red LED indicates readiness for operation.
  - 5. Close the clamp jaws of the clamp meter adapter. Make sure that no conductor is enclosed.
  - 6. Compensate the direct current offset: press ZERO < 1 second.
  - 7. Place the cables being measured centrally with the clamp.
  - The measured value is shown on the LC display.

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**Measuring alternating currents (AC)**

- 1. Connect the testo 760 and clamp meter adapter to the measurement cables: black cable to the COM jack; red cable to jack V/Ω/diode/capacitance.
- 2. Switch on the testo 760.
- 3. Activate AC mV measuring mode for current measurement: Press button V 3 x.
- 4. Switch on the clamp meter adapter.
- A green or red LED indicates readiness for operation.
- 5. Place the cables being measured centrally with the clamp.
- The measured value is shown on the LC display.
- The displayed mV value indicates the measured current in amperes.
Service and maintenance
Replacing the batteries
If the battery voltage is high enough, the LED lights up green. When batteries start running out, the LED lights up red, which means the batteries need changing soon.

1. Switch the instrument off.
2. Fully disconnect the instrument from all measurement circuits.
3. Open the battery compartment: undo the screw and remove the battery compartment cap.
4. Remove the spent batteries.
5. Insert new batteries in accordance with the battery icon.
6. Close the battery compartment: put the battery compartment cap on and tighten the screw.

Maintenance
When operated in accordance with the instruction manual, the instrument does not require any particular maintenance. If a malfunction occurs during operation, the ongoing measurement should be stopped immediately. Send the instrument to Testo Service for checking.

Storage
- Make sure the instrument is stored in a dry place.
- If the instrument is not in use for a significant period of time: remove the batteries in order to prevent any danger or damage due to any potential leaking of the batteries.

Cleaning
- Always switch off the instrument prior to cleaning and disconnect it from external voltage, other connected instruments (e.g. test piece, and control devices, etc.), or a clamped conductor.
- Wipe the instrument with a damp cloth and a small amount of mild household detergent. Never use any harsh cleaning agents or solvents to clean the instrument! After being cleaned, the instrument must not be used until it has completely dried.

Protecting the environment
- Dispose of faulty rechargeable batteries/spent batteries in accordance with the valid legal specifications.
- At the end of its useful life, send the product to the separate collection for electric and electronic devices (observe local regulations) or return the product to Testo for disposal.