



---

## The company

For the past 40 years testo AG has been developing, producing and distributing electronic measuring instruments and probes on a worldwide basis for

- temperature
- humidity
- velocity
- flue gas
- hydrology
- water analysis

The continuous research and further development of our products is always customer-orientated!



### **Worldwide distribution**

Our accurate measuring instruments leave Lenzkirch for destinations throughout the world. With subsidiaries in Australia, Austria, Belgium, China/Hong Kong, France, Great Britain, Italy, Japan, The Netherlands, Spain, USA and sales representatives in the rest of the world, our measuring instruments have found successful markets throughout the five continents.

### **A high level of quality**

Testo measuring instruments are manufactured to high quality standards confirmed by our certified quality assurance system in accordance with DIN EN ISO 9001.

### **Fully-qualified service**

We offer our customers qualified advice and assistance even after the sale of a product. Our world wide sales network always guarantees quick support.



testo

## Our objectives

A high level of quality, a favourable price/quality relationship and a customer-friendly service have made us one of the market leaders in portable, electronic measuring instruments.

All important industrial sectors use our highly-valued measuring instruments.

We offer practical instruments for water analysis for each application and price range.

Should you wish to effect measurements without printing the data, the following instruments from the low-cost Compact Class are ideal:

**testo 230:** measures pH value, temperature and redox

**testo 240:** measures conductivity and temperature

# The compact alternative



## The most important features:

- conductivity and temperature measuring instrument in one
- easy to use
- covers very wide measuring range with only one measuring cell
- mS/cm and °C via one plug-in connection
- rugged and splash-proof (IP 54)
- large two-line display
- measuring results are not influenced by dirt on electrodes
- measurement of salt content (NaCl)

## Practical measurements

The **testo 240** is a complete conductivity measuring instrument as well as an accurate thermometer. Only one conductivity measuring cell covers a wide measuring range. The temperature probe integrated in the measuring cell enables the accurate display of the conductivity value compensated in relation to the reference temperature.

One particular advantage for the user is that the NTC temperature probes from the testo 110 measuring instrument can be connected to testo 240, i.e. the highly-resistant laboratory probe, the rugged, stainless steel food probe, the immersion/penetration probe, air probe or surface probe.

## Conductivity measuring cells for every application

The 4 electrode technology used here prevents the formation of physical coatings from distorting the measured values – for example sewage.

The low-cost universal measuring cell with type 07 mS stainless steel electrodes is ideal for applications up to 200 mS/cm for which the highest level of accurate is required.

The stable, accurate, type 10 mS measuring cell with electrodes made of highly-resistant special graphite, fulfills the most demanding levels of accuracy during measurements of up to 300 mS/cm.



µS/cm  
mS/cm  
°C

µS/cm  
mS/cm  
°C

# Technical data



## Set case

A solid, plastic case with insert for the measuring instrument, probes and accessories.

## testo 240-instrument

<b>Meas. range</b>	0 $\mu$ S/cm to 2000 mS/cm -50...+150 °C 1 mg/l to 200 g/l (NaCl)
<b>Resolution</b>	max. 0.1 $\mu$ S/cm 0.1 °C 0.1 mg/l
<b>Accuracy <math>\pm</math> 1 digit</b>	1 % of m.v. (conductivity)
<b>Temperatur</b>	$\pm$ 0.4 °C (-50 to -25.1 °C) $\pm$ 0.2 °C (-25 to +74.9 °C) $\pm$ 0.4 °C (+75 to +99.9 °C) $\pm$ 0.5 % of. mv. (+100 to +150 °C)
<b>Measurement of salt content (NaCl)</b>	1.2 % of meas. value
<b>Temperature compensation</b>	automatic
<b>Temperature coefficient</b>	0 to 5 % / °C <ul style="list-style-type: none"> <li>• linear compensation</li> <li>• compensation of the non-linear function of natural water according to DIN 38404 from 0 to 50 °C</li> </ul>
<b>Operating temperature</b>	0 to +40 °C
<b>Storage/transport temp.</b>	-20...+70 °C
<b>Display</b>	LCD, 2 lines
<b>Connections</b>	• mini DIN socket for conductivity meas. cells or temperature probe (testo 110)
<b>Battery life</b>	approx. 60 h
<b>Weight</b>	170 g (incl. batteries)
<b>Other</b>	• IP 54 • automatic switch between measuring ranges (conductivity) • °C/°F conversion • Housing material ABS

## Warranty

Measuring instruments	24 months
-----------------------	-----------

## Conductivity measuring cells



**Universal conductivity measuring cell type 07 mS:** utmost accuracy up to 200 mS/cm

**Meas. range** 1  $\mu$ S to 200 mS/cm  
0 to +60 °C

**Meas. technique** • 4 electrode technologie  
• integrated temperature sensor

**Electrode material** stainless steel  
**Length of shaft** 130 mm  
**Ø Measuring cell** 20 mm



**Accurate conductivity measuring cell type 10 mS:** long-term stable, upmost accuracy up to 300 mS/cm

**Meas. range** 1  $\mu$ S to 300 mS/cm  
0 to 60 °C

**Meas. technique** • 4 electrode technologie  
• integrated temperature sensor

**Electrode material** graphite  
**Length of shaft** 130 mm  
**Ø Measuring cell** 20 mm

## Temperature probes (NTC)



**Immersion/penetration probe type 02 T:** for all types of applications

**Meas. range** -50 to +150 °C  
**Response time  $t_{99}$**  10 sec.  
**Length of probe shaft** 110 mm  
**Ø probe shaft** 4 mm



**Laboratory probe with glass tube type 70 T:** excellent chemical resistance to aggressive environments.

**Meas. range** -50 to +150 °C  
**Response time  $t_{99}$**  40 sec.  
**Length of probe shaft** 200 mm  
**Ø probe shaft** 6 mm (5 mm at the top)



**Food probe type 22 T:** boilproof, water-resistant, made completely of V4A and robust

**Meas. range** -50 to +150 °C  
**Response time  $t_{99}$**  10 sec.  
**Length of probe shaft** 125 mm  
**Ø probe shaft** 4 mm (3 mm at the top)



**Surface probe type 09 T:** rugged probe with a wide measuring tip for flat surfaces

**Meas. range** -50 to +150 °C  
**Response time  $t_{99}$**  35 sec.  
**Length of probe shaft** 110 mm  
**Ø probe shaft** 4 mm (6 mm at the top)

Typ 02 T

$\mu$ S/cm  
mS/cm  
°C

°C







# Ordering data

Photocopy this page, indicate the article and quantity you wish to order and fax your order to us. **Do not forget to add your name and address!**

Sender
Signature

	Quantity	Description	Part no.
Meas. inst.	_____	<b>testo 240</b> , conductivity and temperature measuring instrument with battery and 2 electrode clips .....	0560.2404
	_____	<b>Conductivity set 1 "universal"</b> , utmost accuracy up to 200 mS/cm .....	0563.2405
Sets	_____	<b>Conductivity set 2 "precision"</b> , utmost accuracy up to 300 mS/cm .....	0563.2406
	_____	<b>Universal conductivity measuring cell, type 07 mS</b> , highest accuracy up to 200 mS/cm, stainless steel .....	0650.3023
Conductivity measuring cells	_____	<b>Precision conductivity measuring cell, typ 10 mS</b> , long-term stable, highest accuracy up to 300 mS/cm, graphite.....	0650.3024
	_____	<b>Immersion/penetration probe type 02 T</b> , for all applications .....	0613.1211
Temperature probes	_____	<b>Laboratory probe with glass tube type 70 T</b> , excellent chemical resistance.....	0613.7011
	_____	<b>Food probe type 22 T</b> , boilproof, water-resistant .....	0613.2211
	_____	<b>Surface probe type 09 T</b> , with wide measuring tip .....	0613.1911
	_____	<b>Spare glass tube</b> for laboratory temperature probe with glass tube type 70 T (0613.7011) .....	0554.7072
	_____	<b>Conductivity standard solution (1413 µS/cm)</b> 0,01 mol/l KCl, for calibration of conductivity meas. cells.....	0554.2334
Accessories	_____	<b>Set case</b> for <b>testo 240</b> , probes and accessories .....	0516.0230
	_____	<b>ISO-calibration certificate/water analysis</b> . For conductivity solutions; calibration point 1.413 µS/cm .....	0520.0019
	_____	<b>ISO-calibration certificate/Temperature</b> . .....	0520.0001
	_____	For air/immersion probes, infrared thermometer; calibration points -18°C; 0°C; +60°C.....	

Subject to change without notice

### Conductivity set 1 "universal"

consists of **testo 240**, battery, 2 electrode clips, universal conductivity measuring cell **type 07 mS**, instruction manual, set case

\_\_\_\_\_ **Conductivity set 1 "universal"** .....Part no. 0563.2405

### Conductivity set 2 "precision"

consists of **testo 240**, battery, 2 electrode clips, accurate conductivity measuring cell **type 10 mS**, instruction manual, set case

\_\_\_\_\_ **Conductivity set 2 "precision"** .....Part no. 0563.2406