Be sure. **testo**

Temperature measuring instrument (1-channel)

testo 110 – NTC and Pt100 temperature measuring instrument with App connection
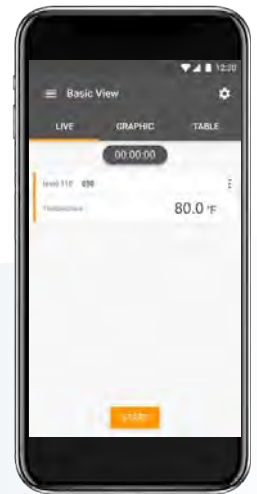
Simple, fast and particularly precise temperature measurement with NTC or Pt100 probes (optionally available)

Fast in-app configuration, graph history, second screen and measurement data memory in the testo Smart App

HACCP-compliant, certified according to EN 13485 for use in the food sector

High-precision measurement results and high system accuracy with digital Pt100 sensors (calibration without measuring instrument)

Audible alarm sounds if a limit value is exceeded

EN 13485

°F

°C

Bluetooth 5.0 + App
testo Smart App for free download

GET IT ON Google Play
Download on the App Store

Easy to use and precise in measurement: This is how the testo 110 compact temperature measuring instrument is convincing every day in use. The fast temperature measuring instrument show its strengths particularly in applications in **laboratories or in the food safe environments**: The optionally available NTC or Pt100 probes cover a comprehensive range of measuring tasks and ensure exact results with particularly high accuracy. The digital Pt100 probes can also be calibrated without the measuring instrument - so you can easily continue working with a different probe without downtime.

Of course, the testo 110 is HACCP-compliant, certified to EN13485 and, with the optional TopSafe protective cover, dust-tight and protected against water jets (protection class IP65).
The temperature measuring instrument is rounded off by the testo Smart App for smartphones and tablets:
- Configuration of testo 110
- Second display
- Measurement data memory
- Display of the measured values (table, graphic progression)
- Documentation

Ordering data / technical data / accessories

testo 110

testo 110, 1-channel temperature measuring instrument NTC / Pt100 with App connection, TUC probe socket and audible alarm, incl. transport bag, calibration protocol and 3 x AA batteries

Order no. 0563 0110

TopSafe

TopSafe, protects against impact and dirt, with attachment magnets and stand-up bracket

Order no. 0516 0224

Sensor types

NTC	
Measuring range	-58 to 302 °F
Accuracy ±1 digit	±0.36 °F (-4 to +176 °F) ±0.54 °F (remaining meas. range)
Resolution	0.1 °F
Pt100	
Measuring range	-328 to 1,472 °F
Accuracy ±1 digit	according to the probe accuracy
Solution	according to the probe accuracy

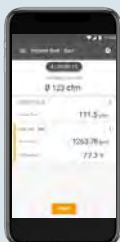**General technical data**

| Operating temperature	-4° to 122 °F
Storage temperature	-4° to 122 °F
Battery type	3 x AA
Battery life	100 h
Dimensions	5.3 x 2.4 x 1.1 in
Weight	0.41 lbs
Protection class	IP40 with TopSafe: IP65
Housing material	ABS + PC / TPE

The testo Smart App

• Simple and fast: Measurement menus for numerous applications provide optimum support in configuring and carrying out the measurement

• Clear graphical presentation of readings, e.g. as a table, for quick interpretation of results

• Create digital measurement reports including photos as PDF/CSV files on site and send via e-mail
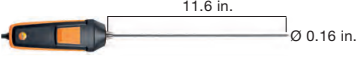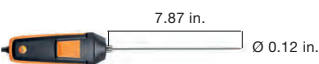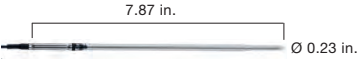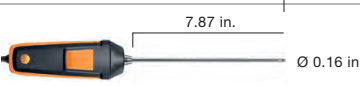
Free download
for Android and iOS

testo SMART
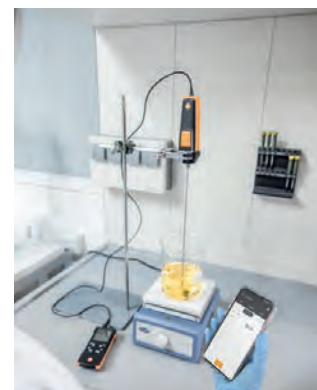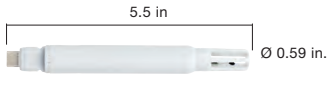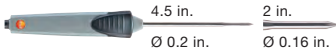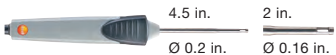
Accessories	Order no.
TopSafe, protects against impact and dirt, with attachment magnets and stand-up bracket	0516 0224
testo Bluetooth® printer, incl. 1 roll of thermal paper, rech. battery and power supply	0554 0621
Spare thermal paper for printer (6 rolls), measurement data documentation can be read for up to 10 years	0554 0568
NIST Temperature Certificate pick 3 standard points between -20, +10, +25 and +40°C	400520 1901
NIST Temperature Certificate pick 3 custom points between -20 and/or from +5 to +70°C	400520 1902

Digital Pt100 and NTC temperature probes

Probe type		Measuring range	Accuracy	Resolution	Order no.
Digital Pt100 temperature probe					
High-precision digital Pt100 penetration probe for measurements in liquids and pastes with an accuracy of up to ±0.09 °F	11.6 in. Ø 0.16 in.	-112 to 572 °F	±0.54 °F (-112 to -40.001 °F) ±(0.18 °F + 0.05% of m.v.) (-40 to 31.9 °F) ±0.09 °F (32 to 212 °F) ±(0.09 °F + 0.05% of m.v.) (212.01 to 572 °F)	0.001 °F	0618 0275
Digital Pt100 penetration probe for measurements in liquids and pastes	7.87 in. Ø 0.12 in.	-148 to 752 °F	±(0.27 °F + 0.2% of m.v.) (-148 to 31.9 °F) ±(0.27 °F + 0.05% of m.v.) (32 to 212 °F) ±(0.27 °F + 0.2% of m.v.) (212.01 to 662 °F) ±(0.9 °F + 0.5% of m.v.) (662.01 to 752 °F)	0.01 °F	0618 0073
Glass-coated digital Pt100 laboratory probe for measurements in corrosive media	7.87 in. Ø 0.23 in.	-50 to 752 °F	±(0.54 °F + 0.3% of m.v.) (-58 to 572 °F) ±(0.72 °F + 0.6% of m.v.) (572.01 to 752 °F)	0.01 °F	0618 7072
Robust, fast-reaction, digital Pt100 air probe	7.87 in. Ø 0.16 in.	-148 to 752 °F	±(0.27 °F + 0.2% of m.v.) (-148 to 31.9 °F) ±(0.27 °F + 0.05% of m.v.) (32 to 212 °F) ±(0.27 °F + 0.2% of m.v.) (212.01 to 662 °F) ±(0.9 °F + 0.5% of m.v.) (662.01 to 752 °F)	0.01 °F	0618 0072
Flexible digital Pt100 temperature probe for measurements in locations that are difficult to access and in liquids	Ø 0.16 in. Length 39.37 in.	-148 to 509 °F	±(0.54 °F + 0.3% of m.v.)	0.01 °F	0618 0071
Digital Pt100 cable temperature probe Cable length 4.3 ft.	Length 3.5 in. Ø 0.16 in.	-12 to 302 °F (probe and cable only)	±0.45 °F (+0.3% of reading at -57.9 to 211.9 °F) ±0.99 °F (remaining measuring range)	0.01 °F	0572 2163
Digital NTC temperature / humidity probe					
Digital NTC stub temperature probe	5.5 in Ø 0.59 in.	-22 to 122 °F	±0.72 °F	0.1 °F	0572 2162
Digital stub humidity/ temperature probe	5.5 in Ø 0.59 in.	-22 to 122 °F, 0 to 100% RH (non-condensing)	±0.72 °F at 77 °F ± 2.0 %RH at 0 to 90 %RH at 77°F ± 0.03 %RH/K (k=1)	0.1 °F 0.1 %RH	0572 2164
Digital cable humidity/ temperature probe Cable length 4.3 ft	Length 5.5 in. Ø 0.59 in.	-22 to 122 °F, 0 to 100% RH (non-condensing)	±0.72 °F at 77 °F ± 2.0 %RH at 0 to 90 %RH at 77°F ± 0.03 %RH/K (k=1)	0.1 °F 0.1 %RH	0572 2165

Analog NTC temperature probe

Probe type	Probe shaft/probe shaft tip dimensions		Measuring range	Accuracy	Response time	Order no.
Pipe wrap probe (NTC) for pipe diameters of 0.2 to 2.5 in., fixed cable 3.9 ft.			-58 to 248 °F	±0.36 °F (-13 to +176 °F)		0615 5605
Temperature probe with Velcro (NTC), fixed cable 4.5 ft.	11.8 in.	1.8 in.	-58 to 158 °F	±0.36 °F (-13 to 158 °F) ±0.72 °F (-58 to -13.1 °F)	60 s	0615 4611
Waterproof NTC immersion/ penetration probe, fixed cable 3.9 ft	4.5 in. Ø 0.2 in.	2 in. Ø 0.16 in.	-58 to 257 °F	±0.5% of m.v. (212 to 302 °F) ±0.4 °F (-13 to 166.8 °F) ±0.7 °F (remaining meas. range)	10 s	0615 1212
Robust air probe NTC, fixed cable 3.9 ft	4.5 in. Ø 0.2 in.	2 in. Ø 0.16 in.	-58 to 257 °F	±0.4 °F (-13° to 176 °F) ±0.7 °F (Remaining Range)	60 s	0615 1712
Clamp probe for measurements on pipes from 0.2 to 1.3 in. diameter, NTC, fixed cable 4.9 ft.			-40 to 257 °F	±1.8 °F (-4 to 185 °F)	60 s	0615 5505

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Subject to change without notice.