

# Temperature measuring instrument (1-channel)

testo 110 Food - Universal temperature measuring instrument with app connection for the food sector

Simple, fast and precise temperature measurement including seamless documentation via the testo Smart App

Universal measurements with and without app as well as own measurement program for (critical) control point (CP/CCP) checks

Versatility: Suitable temperature probes for all applications

Easy handling: Intuitive design and user-friendly operation, even for less experienced users in the food industry

Tracking of measurement data: CSV data export or professional reports in PDF format (incl. signature & comment function) for regulatory requirements and internal quality assurance



Bluetooth 5.0 + App 

testo Smart App for free download

GET IT ON Google Play

Download on the App Store



The compact testo 110 Food is a highly precise and user-friendly temperature measuring instrument that can be used universally for ensuring the quality of food: From production to storage & transport, through to preparation and sale. The testo Smart App connection makes digital documentation, and especially temperature limit monitoring (CP/CCP) easier than ever.

In addition, the app function offers configuration of the testo 110 Food, a second display, measurement data memory, display of measurement values (table, graph) and seamless documentation.

The versatility of the measuring instrument is also reflected in the selection of different temperature probes: From various penetration/immersion probes to frozen food probes in the food sector and high-precision Pt100 probes for laboratory use.

With the testo Smart App, the testo 110 Food becomes an indispensable measuring instrument for precise and efficient temperature measurements in the food environment, meeting the highest standards of hygiene and quality.

# Ordering data / technical data / accessories

## testo 110 Food

testo 110 Food, 1-channel temperature measuring instrument NTC / Pt100 with Bluetooth, TUC probe socket and audible alarm, incl. TopSafe, calibration protocol and 3 x AA batteries



Order no. 0563 0111



## TopSafe



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




Order no. 0516 0225

### The testo Smart App

- Easy 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

Download the testo Smart App now and use all the benefits!



### Sensor types

With NTC probes	
Measuring range	-50 to +150 °C
Accuracy ±1 digit	±0.2 °C (-20 to +80 °C) ±0.3 °C (remaining meas. range)
Solution	0,1 °C

With Pt100 probes	
Measuring range	-200 to +800 °C
Accuracy ±1 digit	according to the probe accuracy
Resolution	according to the probe accuracy

### General technical data

Mobile app (Android/iOS)	Can be used with or without testo Smart App
Conformity	EN 13485, HACCP, NSF
Operating temperature	-20 to +50 °C
Storage temperature	-20 to +50 °C
Battery type	3 x AA
Battery life	100 h
Dimensions	135 x 60 x 28 mm
Weight	187 g
Protection class	With TopSafe (included in delivery): IP65 Without: IP40
Housing material	ABS + PC / TPE

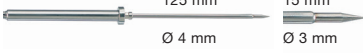
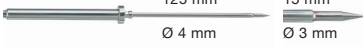
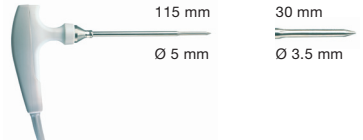
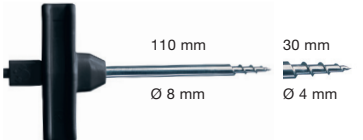
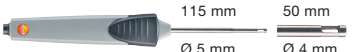
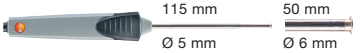



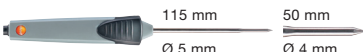


Kit	Order no.
testo 110 Food kit incl. stainless steel probe	0563 0112



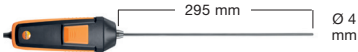
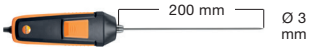

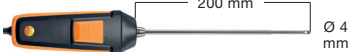


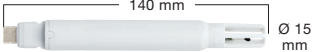
Accessories	Order no.
TopSafe, protects against impact and dirt, with stand-up bracket	0516 0225
testo Bluetooth® printer, incl. 1 roll of thermal paper, rech. battery and mains unit	0554 0621
Spare thermal paper for printer (6 rolls), measurement data documentation can be read for up to 10 years	0554 0568
ISO temperature calibration certificate, for air/immersion probe, calibration points -18 °C; 0 °C; +60 °C	0520 0001
ISO temperature calibration certificate, one-point calibration for surface thermometer, calibration point +60 °C	0520 0072
ISO temperature calibration certificate, one-point calibration for surface thermometer, calibration point +120 °C	0520 0073
DAkkS temperature calibration certificate, measuring instruments with air/immersion probe; calibration points -20 °C; 0 °C; +60 °C	0520 0211

# Analog NTC temperature probe

Probe type	Probe shaft/probe shaft tip dimensions	Measuring range	Accuracy	Response time	Order no.
<b>Food probe</b>					
Stainless steel NTC food probe (IP65) with PUR cable, fixed cable 1.5 m	 125 mm Ø 4 mm 15 mm Ø 3 mm	-50 to +150 °C <sup>2)</sup>	±0.5% of m.v. (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining meas. range)	8 s	0615 2211
Stainless steel NTC food probe (IP67) with PTFE cable up to +250 °C, fixed cable 1.5 m	 125 mm Ø 4 mm 15 mm Ø 3 mm	-50 to +150 °C <sup>2)</sup>	±0.5% of m.v. (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining meas. range)	8 s	0615 3311
Robust NTC food penetration probe with special handle, reinforced PUR cable, fixed cable 1.3 m	 115 mm Ø 5 mm 30 mm Ø 3.5 mm	-25 to +150 °C <sup>2)</sup>	±0.5% of m.v. (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining meas. range)	7 s	0615 2411
Frozen food probe NTC for screw-in use without pre-drilling (including plug-in cable 1.5 m)	 110 mm Ø 8 mm 30 mm Ø 4 mm	-50 to +140 °C <sup>2)</sup>	±0.5% of m.v. (+100 to +140 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining meas. range)	20 s	0615 3211
<b>Air probe</b>					
Robust air probe NTC, fixed cable 1.2 m	 115 mm Ø 5 mm 50 mm Ø 4 mm	-50 to +125 °C <sup>2)</sup>	±0.2 °C (-25 to +80 °C) ±0.4 °C (remaining meas. range)	60 s	0615 1712
<b>Surface probe</b>					
Watertight NTC surface probe for flat surfaces, fixed cable 1.2 m	 115 mm Ø 5 mm 50 mm Ø 6 mm	-50 to +150 °C <sup>2)</sup>	±0.5% of m.v. (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining meas. range)	35 s	0615 1912
Temperature probe with Velcro (NTC), fixed cable 1.4 m	 300 mm 30 mm	-50 to +70 °C	±0.2 °C (-25 to +70 °C) ±0.4 °C (-50 to -25.1 °C)	60 s	0615 4611
Pipe wrap probe (NTC) for pipe diameters from 5 to 65 mm, fixed cable 1.2 m	 50 mm 30 mm	-50 to +120 °C	±0.2 °C (-25 to +80 °C)		0615 5605
Clamp probe for measurements on pipes from 6 to 35 mm diameter, NTC, fixed cable 1.5 m	 30 mm 30 mm	-40 to +125 °C	±1 °C (-20 to +85 °C)	60 s	0615 5505
<b>Immersion/penetration probe</b>					
Waterproof NTC immersion/penetration probe, fixed cable 1.2 m	 115 mm Ø 5 mm 50 mm Ø 4 mm	-50 to +150 °C <sup>2)</sup>	±0.5% of m.v. (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining meas. range)	10 s	0615 1212

2) Long-term measuring range to +125 °C, briefly to +150 °C or +140 °C (2 minutes)

# Digital Pt100 and NTC temperature probes

Probe type		Measuring range	Accuracy	Solution	Order no.
<b>Digital Pt100 temperature probe</b>					
<b>High-precision digital Pt100 penetration probe</b> for measurements in liquids and pastes with an accuracy of up to $\pm 0.05^\circ\text{C}$		-80 to +300 °C	$\pm 0.3^\circ\text{C}$ (-80 to -40.001 °C) $\pm (0.1^\circ\text{C} + 0.05\% \text{ of m.v.})$ (-40 to -0.001 °C) $\pm 0.05^\circ\text{C}$ (0 to +100 °C) $\pm (0.05^\circ\text{C} + 0.05\% \text{ of m.v.})$ (+100.001 to +300 °C)	0,001 °C	0618 0275
<b>Digital Pt100 penetration probe</b> for measurements in liquids and pastes		-100 to +400 °C	$\pm (0.15^\circ\text{C} + 0.2\% \text{ of m.v.})$ (-100 to -0.01 °C) $\pm (0.15^\circ\text{C} + 0.05\% \text{ of m.v.})$ (0 to +100 °C) $\pm (0.15^\circ\text{C} + 0.2\% \text{ of m.v.})$ (+100.01 to +350 °C) $\pm (0.5^\circ\text{C} + 0.5\% \text{ of m.v.})$ (+350.01 to +400 °C)	0,01 °C	0618 0073
<b>Glass-coated digital Pt100 laboratory probe</b> for measurements in corrosive media		-50 to +400 °C	$\pm (0.3^\circ\text{C} + 0.3\% \text{ of m.v.})$ (-50 to +300 °C) $\pm (0.4^\circ\text{C} + 0.6\% \text{ of m.v.})$ (+300.01 to +400 °C)	0,01 °C	0618 7072
<b>Robust, fast-reaction, digital Pt100 air probe</b>		-100 to +400 °C	$\pm (0.15^\circ\text{C} + 0.2\% \text{ of m.v.})$ (-100 to -0.01 °C) $\pm (0.15^\circ\text{C} + 0.05\% \text{ of m.v.})$ (0 to +100 °C) $\pm (0.15^\circ\text{C} + 0.2\% \text{ of m.v.})$ (+100.01 to +350 °C) $\pm (0.5^\circ\text{C} + 0.5\% \text{ of m.v.})$ (+350.01 to +400 °C)	0,01 °C	0618 0072
<b>Flexible digital Pt100 temperature probe</b> for measurements in locations that are difficult to access and in liquids		-100 to +260 °C	$\pm (0.3^\circ\text{C} + 0.3\% \text{ of m.v.})$	0,01 °C	0618 0071
<b>Digital Pt100 cable temperature probe</b> Cable length 1.3 m		-85 to +150 °C (probe and cable only)	$\pm (0.25^\circ\text{C} + 0.3\% \text{ of m.v.})$ at -49.9 to +99.9 °C $\pm 0.55^\circ\text{C}$ remaining measuring range	0,01 °C	0572 2163
<b>Digital NTC temperature probe</b>					
<b>Digital NTC stub temperature probe</b>		-30 to +50 °C	$\pm 0.4^\circ\text{C}$	0,1 °C	0572 2162

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Subject to change, including technical modifications.