Be sure. **testo**

Temperature measuring instrument (1-channel)

testo 110 Food - Universal temperature measuring instrument with app connection for the food sector
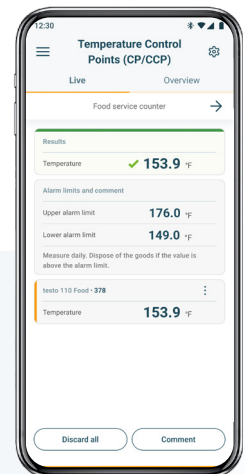
Simple, fast and precise temperature measurement including seamless documentation via the testo Smart App

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

HACCP INTERNATIONAL PROGRAMME · FOOD SAFETY CERTIFICATION

EN 13485 ACCORDING TO

NSF®

°F/°C

Bluetooth 5.0 + App

testo SMART

testo Smart App for free download

GET IT ON Google Play

Download on the App Store

The compact testo 110 Food thermometer is a highly precise and userfriendly temperature measuring instrument that can be used universally for ensuring the quality of food. This device supports your temperature measurement needs 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 sector coupled with the topsafe case (included) meeting the highest standards of hygiene and quality.

www.testo.com

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 01

testo 110 Food Kit

testo 110 Food, 1-channel. TopSafe protective case, plus stainless steel probe

Order no. 0516 0112

Sensor types

With NTC probes	
Measuring range	-58 to 302°F (-50 to +150°C)
Accuracy ±1 digit	±0.36 °F (-4 to +176 °F) ±0.54 °F (remaining meas. range) ±0.2 °C (-20 to +80 °C) ±0.3 °C (remaining meas. range)
Solution	0.1 °F (0.1 °C)
With Pt100 probes	
Measuring range	-328 to 1,472 °F (-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	-4 to 122 °F (-20 to +50 °C)
Storage temperature	-4 to 122 °F (-20 to +50 °C)
Battery type	3 x AA
Battery life	100 h
Dimensions	5.3 X 2.4 X 1.1 in (135 x 60 x 28 mm)
Weight	6.6 oz. (187 g)
Protection class	With TopSafe (included in delivery): IP65 Without: IP40
Housing material	ABS + PC / TPE
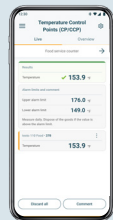
The testo Smart App

- 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!
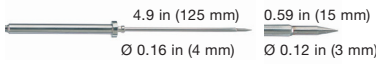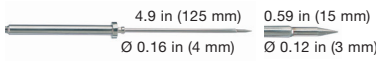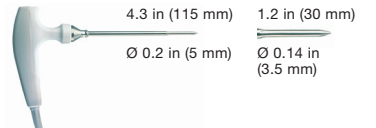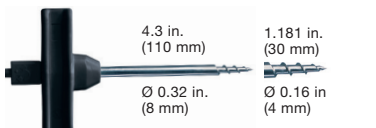
*probe sold separately
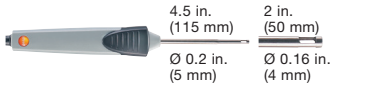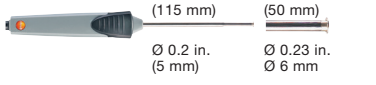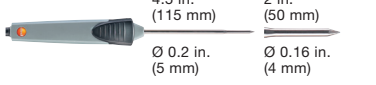
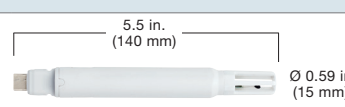*probe sold separately

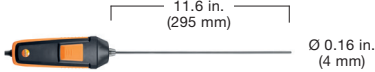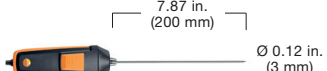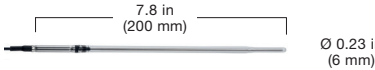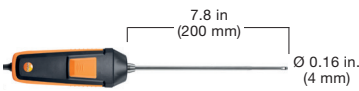| Accessories	Order no.	
TopSafe, protects against impact and dirt, with stand-up bracket	0516 0225	
testo Bluetooth® printer, incl. 1 roll of thermal paper, rech. battery and mains unit	0554 0621	
Spare thermal paper for printer (6 rolls), measurement data documentation can be read for up to 10 years	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
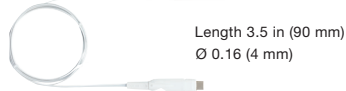
Probe type	Probe shaft/probe shaft tip dimensions		Measuring range	Accuracy	Response time	Order no.
Food probe						
Stainless steel NTC food probe (IP65) with PUR cable, fixed cable 4.9 ft. (1.5 m)	4.9 in (125 mm) Ø 0.16 in (4 mm)	0.59 in (15 mm) Ø 0.12 in (3 mm)	-58 to 302 °F (-50 to +150 °C [2])	±0.7 °F (remaining meas. range) ±0.5 % of mv (212 to 302 °F) ±0.4 °F (-13 to 166.8 °F) ±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 482 °F (+250 °C), fixed cable 1.5 m	4.9 in (125 mm) Ø 0.16 in (4 mm)	0.59 in (15 mm) Ø 0.12 in (3 mm)	-58 to 302 °F (-50 to +150 °C [2])	±0.7 °F (remaining meas. range) ±0.5 % of mv (212 to 302 °F) ±0.4 °F (-13 to 166.8 °F) ±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	4.3 in (115 mm) Ø 0.2 in (5 mm)	1.2 in (30 mm) Ø 0.14 in (3.5 mm)	-13 to 302 °F (-25 to +150 °C [2])	±0.5 % of mv (212 to 302 °F) ±0.7 °F (remaining meas. range) ±0.4 °F (-13 to 166.8 °F) ±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)	4.3 in. (110 mm) Ø 0.32 in. (8 mm)	1.181 in. (30 mm) Ø 0.16 in (4 mm)	-58 to 284 °F (-50 to +140 °C [2])	±0.4 °F (-13° to 166.8 °F) ±0.7 °F (remaining meas. range) ±0.5 % of mv (+212° to +284 °F) ±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
Air probe						
Robust air probe NTC, fixed cable 3.9 ft (1.2 m)	4.5 in. (115 mm) Ø 0.2 in. (5 mm)	2 in. (50 mm) Ø 0.16 in. (4 mm)	-58 to 257 °F (-50 to +125 °C [2])	±0.4 °F (-13° to 176 °F) ±0.7 °F (remaining meas. range) ±0.2 °C (-25 to +80 °C) ±0.4 °C (remaining meas. range)	60 s	0615 1712
Surface probe						
Watertight NTC surface probe for flat surfaces, fixed cable 3.9 ft (1.2 m)	4.5 in. (115 mm) Ø 0.2 in. (5 mm)	2 in. (50 mm) Ø 0.23 in. Ø 6 mm	-58 to 302 °F (-50 to +150 °C [2])	±0.5% of m.v. (212 to 302 °F) ±0.4 °F (-13 to 166.8 °F) ±0.7 °F (remaining meas. range) ±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
Immersion/penetration probe						
Waterproof NTC immersion/ penetration probe, fixed cable 3.9 ft (1.2 m)	4.5 in. (115 mm) Ø 0.2 in. (5 mm)	2 in. (50 mm) Ø 0.16 in. (4 mm)	-58 to 302 °F (-50 to +150 °C [2])	±0.7 °F (remaining meas. range) ±0.5 % of mv (212 to 302 °F) ±0.4 °F (-13 to 166.8 °F) ±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 257 °F (+125 °C), briefly to 302 °F (+150 °C) or 284 °F (+140 °C) (2 minutes)

Digital NTC temperature probes

Probe type		Measuring range	Accuracy	Resolution	Order no.
Digital NTC temperature probe					
Digital NTC stub temperature probe	5.5 in. (140 mm) Ø 0.59 in (15 mm)	-22 to 122 °F (-30 to +50 °C)	±0.72 °F (±0.4 °C)	0.1 °F (0,1 °C)	0572 2162

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Digital Pt100 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 (±0.05°C)	11.6 in. (295 mm) — Ø 0.16 in. (4 mm)	-112 to 572 °F (-80 to +300 °C)	±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) ±0.3 °C (-80 to -40.001 °C) ±(0.1 °C + 0.05 % of m.v.) (-40 to -0.001 °C) ±0.05 °C (0 to +100 °C) ±(0.05 °C + 0.05 % of m.v.) (+100.001 to +300 °C)	0.001 °F (0.001 °C)	0618 0275
Digital Pt100 penetration probe for measurements in liquids and pastes	7.87 in. (200 mm) — Ø 0.12 in. (3 mm)	-148 to 752 °F (-100 to +400 °C)	±(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) ±(0.15 °C + 0.2 % of m.v.) (-100 to -0.01 °C) ±(0.15 °C + 0.05 % of m.v.) (0 to +100 °C) ±(0.15 °C + 0.2 % of m.v.) (+100.01 to +350 °C) ±(0.5 °C + 0.5 % of m.v.) (+350.01 to +400 °C)	0.01 °F (0.01 °C)	0618 0073
Glass-coated digital Pt100 laboratory probe for measurements in corrosive media	7.8 in (200 mm) — Ø 0.23 in (6 mm)	-58 to 752 °F (-50 to +400 °C)	±(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) ±(0.3 °C + 0.3% of m.v.) (-50 to +300 °C) ±(0.4 °C + 0.6 % of m.v.) (+300.01 to +400 °C)	0.01 °F (0.01 °C)	0618 7072
Robust, fast-reaction, digital Pt100 air probe	7.8 in (200 mm) — Ø 0.16 in. (4 mm)	-148 to 752 °F (-100 to +400 °C)	±(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) ±(0.15 °C + 0.2 % of m.v.) (-100 to -0.01 °C) ±(0.15 °C + 0.05 % of m.v.) (0 to +100 °C) ±(0.15 °C + 0.2 % of m.v.) (+100.01 to +350 °C) ±(0.5 °C + 0.5 % of m.v.) (+350.01 to +400 °C)	0.01 °F (0.01 °C)	0618 0072
Flexible digital Pt100 temperature probe for measurements in locations that are difficult to access and in liquids	Ø 0.16 in (4 mm) Length 39.3 in. (1000 mm)	-148 to 509 °F (-100 to +260 °C)	±(0.54 °F + 0.3% of m.v.) ±(0.3 °C + 0.3% of m.v.)	0.01 °F (0.01 °C)	0618 0071
Digital Pt100 cable temperature probe Cable length 4.3 ft. (1.3 m)	Length 3.5 in (90 mm) Ø 0.16 (4 mm)	-121 to 302 °F (-85 to +150°C) (probe and cable only)	±0.45 °F (+0.3% of reading at -57.9 to 211.9 °F) ±0.99 °F (remaining measuring range) ±(0.25 °C + 0.3 % of m.v.) at -49.9 to +99.9 °C ±0.55 °C remaining measuring range	0.01 °F (0.01 °C)	0572 2163

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