



testo 110

## Accurate, Versatile Thermometer

Robust design for a range of everyday applications

NEW!

°C



## testo 110

The affordable testo 110 thermometer is designed to provide accurate measurements for many general temperature applications. The instrument's robust engineering makes it ideal for refrigerated storage rooms, freezers/coolers, storage cabinets, and general outdoor use. In addition, the optional TopSafe protective case guards against damage from water, impact and dirt.

Minimum and maximum values are shown on a clear, 2-line backlit display for easy reading. Values can be printed on-site using the Testo printer (optional).

A wide choice of probes for a range of applications are available. In addition, the testo 110 can be upgraded for use with a wireless temperature probe.

**testo 110 NTC thermometer with audible alarm, battery and calibration protocol**

Part no.  
**0560 1108**

## Accurate Versatile Thermometer

- Wireless temperature measurements without a cable (optional) provides flexibility for users
- User-adjustable audible alarm limits aid in temperature control
- User-adjustable measuring rate (wireless mode) helps save battery power
- Print out readings on-site with the optional Testo printer
- TopSafe protective case (optional) guards against damage from impact, moisture and dirt



Inspecting the temperature of a refrigerated counter



Wireless probe (optional) means an end to problems associated with cables

Accessories	Part no.
Testo printer with wireless IRDA and infrared interface, 1 roll of thermal paper and 4 round cell batteries	0554 0547
Spare thermal paper for printer (6 rolls) Measurement data documentation legible for up to 10 years	0554 0568
Spare thermal paper for printer (6 rolls)	0554 0569
External recharger including 4 Ni-MH rechargeable batteries with built-in, international mains adapter - 100-240 V, 300 mA, 50/60 Hz, 12 VA/instrument	0554 0610
9V rechargeable battery for instrument	0515 0025
Recharger for 9V rechargeable battery For external recharging of 0515 0025 battery	0554 0025
TopSafe, protects from impact and dirt	0516 0221
Case for measuring instrument and probes	0516 0210
Transport case for measuring instrument and probes	0516 0201
Transport case for measuring instrument, 3 probes and accessories	0516 0200
ISO calibration certificate/Temperature For air/immersion probes, calibration points -18°C; 0°C; +60°C	300 0520 0042
ISO calibration certificate/Temperature For air/immersion probes, calibration points +0°C; +50°C; +100°C	300 0520 0082

Alternative points available on request. Please call for further information.

Technical data		
Probe type	NTC	NTC high temperature probe
Measuring range	-50 to +150 °C	0 to +275 °C
Accuracy ±1 digit	±0.2 °C (-20 to +80 °C) ±0.3 °C (remaining range)	±0.2 °C (0 to +80 °C) ±0.3 °C (remaining range)
Resolution	0.1 °C	0.1 °C

Oper. temp.	-20 to +50 °C	Dimensions	182 x 64 x 40 mm
Storage temp.	-40 to +70 °C	Weight	171 g
Battery type	Alkali manganese	Material/Housing	ABS
Battery life	200 h (connected probe, backlight off) 45 h (wireless mode, backlight off) 68 h (connected probe, backlight always on) 33 h (wireless mode, backlight always on)	Warranty	2 years

Air probes	Illustration	Meas. range	Accuracy	t <sub>99</sub>	Part no.
<ul style="list-style-type: none"> <li>Efficient, robust NTC air probe</li> </ul>		-50 to +150 °C	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	60 s	0613 1712
Surface probes	Illustration	Meas. range	Accuracy	t <sub>99</sub>	Part no.
<ul style="list-style-type: none"> <li>Waterproof NTC surface probe for flat surfaces</li> </ul>		-50 to +150 °C	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	35 s	0613 1912
Pipe wrap probe with Velcro for pipe diameter to max. 75 mm, T <sub>max.</sub> +75 °C, NTC		-50 to +70 °C	±0.2 °C (-25 to +70 °C) ±0.4 °C (-50 to -25.1 °C)	60 s	0613 4611
Conn.: Fixed cable					
Immersion / penetration probe	Illustration	Meas. range	Accuracy	t <sub>99</sub>	Part no.
<ul style="list-style-type: none"> <li>Waterproof NTC immersion/penetration probe</li> </ul>		-50 to +150 °C	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	10 s	0613 1212
Conn.: Fixed cable					
Food probes	Illustration	Meas. range	Accuracy	t <sub>99</sub>	Part no.
<ul style="list-style-type: none"> <li>Stainless steel NTC food probe (IP65) with PUR cable</li> </ul>		-50 to +150 °C <sup>2)</sup> -25 to +120 °C	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	8 s	0613 2211
Conn.: Fixed cable					
<ul style="list-style-type: none"> <li>Stainless steel NTC food probe (IP67) with PTFE cable to +250 °C</li> </ul>		-50 to +150 °C	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	8 s	0613 3311
Conn.: Fixed cable					
<ul style="list-style-type: none"> <li>High temperature NTC food probe, stainless steel, can be used at up to +275 °C, PTFE cable up to +200 °C (short-term up to 250 °C)</li> </ul>		0 to +275 °C	±1% of mv (+100.1 to +275 °C) ±(0.3 °C ±0.5% of mv)(0 to +100 °C)	6 s	0613 3411
Fixed cable					
<ul style="list-style-type: none"> <li>Robust NTC food penetration probe with special handle, reinforced PUR cable</li> </ul>		-50 to +150 °C <sup>2)</sup>	±0.5% of mv (+100 to +150 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	7 s	0613 2411
Conn.: Fixed cable					
<ul style="list-style-type: none"> <li>Frozen food probe NTC, corkscrew design</li> </ul>		-50 to +140 °C <sup>2)</sup>	±0.5% of mv (+100 to +140 °C) ±0.2 °C (-25 to +74.9 °C) ±0.4 °C (remaining range)	20 s	0613 3211
Conn.: Plug-in cable					

• The measuring instrument inside TopSafe is waterproof with this probe.

2) Long-term measurement range +125 °C, short-term +150 °C or +140 °C (2 minutes)

### A Upgrade module for wireless option

Country versions	Radio freq.	Part no.
Wireless module for measuring instrument	869.85 MHz	0554 0188

### B Wireless probe for immersion/penetration measurements

Wireless immersion/penetration probe, NTC	Meas. range	Accuracy	Resolution	t <sub>99</sub>
	-50 to +275 °C	±0.5 °C (-20 to +80 °C) ±0.8 °C (-50 to -20.1 °C) ±0.8 °C (+80.1 to +200 °C) ±1.5 °C (remaining range)	0.1 °C	t <sub>99</sub> (in water) 12 s
Country versions	Radio freq.	Part no.		
Wireless immersion / penetration probe, NTC	869.85 MHz	0613 1001		

#### Radio probes: General technical data

Battery type	Radio immersion/penetration probe, NTC	Radio handle	Measuring rate	0.5 s or 10 s, adjustable on handle	Radio transmission	Unidirectional
Battery life	2 x 3V button cell (CR 2032)	2 AAA micro batteries			Oper. temp.	-20 to +50 °C
	150 h (meas. rate 0.5 s)	215 h (meas. rate 0.5 s)	Radio coverage	Up to 20 m (without obstruction)	Storage temp.	-40 to +70 °C
	2 months (meas. rate 10 s)	6 months (meas. rate 10 s)				



## About Testo

Testo is a world leader in the development and manufacture of high quality measurement instruments and sensors. Testo has over 45 years experience of developing solutions for a wide range of complex measurement requirements. We have confidence in the quality of our instruments and prove this with up to 3 years warranty on our products.

We offer an extensive range of portable and stationary instruments for many applications including:

- Portable velocity measuring instruments and sensors
- Data loggers for temperature, humidity, current and voltage
- Portable, electronic measuring instruments for refrigeration engineers
- Temperature, humidity and pH measuring instruments for the food industry
- Portable measuring instruments for heating, ventilation and air conditioning engineers.
- Comprehensive data transmitters for humidity, temperature and pressure dew point
- Process displays and industrial probes

Whatever your industry or application, we probably have the measuring solution for your needs. Testo instruments are widely used in the following sectors:

- HVAC-R: heating, ventilation, air conditioning and refrigeration suitable for industrial, commercial and residential properties.
- Food Sector: including food manufacture, transport, storage, distribution and retail.
- Process Industry: manufacturing industries, service companies and utilities.

For further information, please visit [www.testo.co.uk](http://www.testo.co.uk) or telephone our Technical Sales Team on **01420 544 433**.

## Instrument Service & Calibration

To ensure our customers continue to benefit from the reliability and accuracy of our products we provide servicing and calibration to national standards. Testo Ltd is accredited by UKAS for the calibration parameters of air temperature, immersion temperature, dew point and relative humidity. Our calibration service offers a fast, efficient and cost effective way of ensuring your instrumentation is calibrated to national standards. We are committed to meeting your needs and offer a typical turnaround time of just 5 working days to calibrate your instruments.

For further information, please telephone our Service and Calibration Department on **01420 544 433** or send an email to [calibration@testo.co.uk](mailto:calibration@testo.co.uk)

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