

# Temperature measuring instrument (1-channel)

testo 112 – Universally applicable

Highly accurate, officially calibratable temperature measuring instrument

The instrument for official food inspections

TopSafe, the indestructible protective cover, protects from dirt and impact  
(with TopSafe and probe attached: IP65)

Display and storage of min./max. values

Audible alarm (limit values adjustable)

Large, illuminated display

Measurement data printout on site with Testo fast printer



IP65



°C

The officially calibratable temperature measuring instrument testo 112 was specially designed for official monitoring measurements. Thanks to the PTB type permit and the possibility of official calibration, the instrument is authorized for use in official measurements by food inspectors, assessors and authorities.

An integrated self-test provides security even before the measurement. Thanks to the broad measurement range, the testo 112 is the ideal temperature measuring instrument for all aspects of food inspection. NTC probes (thermistor probes) as well as Pt100 probes (platinum resistance probes) can be connected to the probe input, covering a

broad measuring range from deep-frozen goods to checks on deep-fryers. Occurring minimum and maximum values can be conveniently called up in the two-line display, and when individually adjustable upper and lower limit values are violated, the measuring instrument immediately provides an audible alarm.

In order to document the temperature values, the testo 112 offers the possibility of printing out the data directly on site incl. date and time using the Testo report printer.

## Technical data / Accessories

### testo 112

testo 112, 1 channel temperature measuring instrument NTC/Pt100, calibratable, with battery

Part no. 0560 1128



#### General technical data

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| Operating temperature | -20 to +50 °C                                       |
| Storage temperature   | -30 to +70 °C                                       |
| Adjustment time       | 2 s                                                 |
| Battery life          | 100 h                                               |
| Battery type          | 9V block battery, 6F22                              |
| Dimensions            | 182 x 64 x 40 mm                                    |
| Weight                | 171 g                                               |
| Housing material      | ABS                                                 |
| EC Directive          | 2014/30/EU                                          |
| Protection class      | with TopSafe (accessory) and sensor connected: IP65 |

#### Sensor types

|                      | NTC                                                                               | Pt100                                                 |
|----------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------|
| Measuring range      | -50 to +120 °C                                                                    | -50 to +300 °C                                        |
| Accuracy<br>±1 digit | ±0.2 °C (-25 to +40 °C)<br>±0.3 °C (+40.1 to +80 °C)<br>±0.5 °C (remaining range) | ±0.2 °C (-50 to +200 °C)<br>±0.3 °C (remaining range) |
| Resolution           | 0.1 °C                                                                            | 0.1 °C                                                |

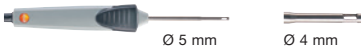
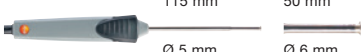
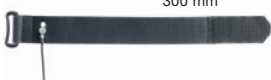
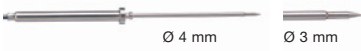
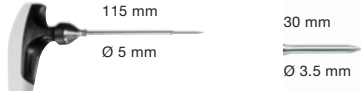
#### Accessories

#### Part no.

#### Accessories for measuring instrument

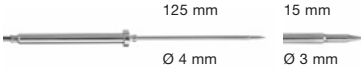
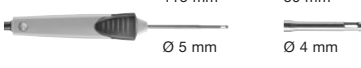
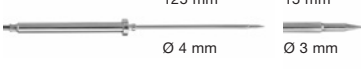
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|--------------------------------------------------------------------------------------------------------------------|-----------|--|
| 9V rech. battery for instrument, instead of battery                                                                | 0515 0025 |  |
| Testo fast printer IrDA with wireless infrared interface; 1 roll thermal paper; 4 AA batteries                     | 0554 0549 |  |
| Spare thermal paper for printer (6 rolls), permanent ink measurement data documentation legible for up to 10 years | 0554 0568 |  |
| TopSafe, protects from impact and dirt                                                                             | 0516 0220 |  |
| Case for measuring instrument and probes                                                                           | 0516 0191 |  |
| Service case for measuring instrument and probe, dimensions 460 x 320 x 120 mm                                     | 0516 1201 |  |

# Probes

| Probe type                                                                                  | Dimensions<br>Probe shaft/probe shaft tip                                                                              | Measuring<br>range           | Accuracy                                                                                  | t <sub>99</sub> | Part no.  |
|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------|-----------------|-----------|
| <b>Air probes</b>                                                                           |                                                                                                                        |                              |                                                                                           |                 |           |
| ◆ Efficient, robust NTC air probe, Fixed cable 1.2 m                                        |  115 mm<br>Ø 5 mm 50 mm<br>Ø 4 mm     | -50 to +125 °C <sup>2)</sup> | ±0.2 °C (-25 to +80 °C)<br>±0.4 °C (remaining range)                                      | 60 s            | 0613 1712 |
| <b>Surface probes</b>                                                                       |                                                                                                                        |                              |                                                                                           |                 |           |
| ◆ Waterproof NTC surface probe for flat surfaces, Fixed cable 1.2 m                         |  115 mm<br>Ø 5 mm 50 mm<br>Ø 6 mm     | -50 to +150 °C <sup>2)</sup> | ±0.5% of m.v. (+100 to +150 °C)<br>±0.2 °C (-25 to +74.9 °C)<br>±0.4 °C (remaining range) | 35 s            | 0613 1912 |
| Pipe wrap probe with Velcro for pipe diameter to max. 75 mm, Tmax. +75 °C, NTC, Fixed cable |  300 mm                               | -50 to +70 °C                | ±0.2 °C (-25 to +70 °C)<br>±0.4 °C (-50 to -25.1 °C)                                      | 60 s            | 0613 4611 |
| <b>Immers./penetr. probes</b>                                                               |                                                                                                                        |                              |                                                                                           |                 |           |
| ◆ Waterproof NTC immersion/penetration probe, Fixed cable                                   |  115 mm<br>Ø 5 mm 50 mm<br>Ø 4 mm   | -50 to +150 °C <sup>2)</sup> | ±0.5% of m.v. (+100 to +150 °C)<br>±0.2 °C (-25 to +74.9 °C)<br>±0.4 °C (remaining range) | 10 s            | 0613 1212 |
| <b>Food probes</b>                                                                          |                                                                                                                        |                              |                                                                                           |                 |           |
| ◆ Stainless steel NTC food probe (IP65) with PUR cable, Fixed cable                         |  15 mm<br>Ø 4 mm Ø 3 mm             | -50 to +150 °C <sup>2)</sup> | ±0.5% of m.v. (+100 to +150 °C)<br>±0.2 °C (-25 to +74.9 °C)<br>±0.4 °C (remaining range) | 8 s             | 0613 2211 |
| ◆ Stainless steel NTC food probe (IP67) with PTFE cable to +250 °C, Fixed cable             |  125 mm<br>Ø 4 mm 15 mm<br>Ø 3 mm   | -50 to +150 °C <sup>2)</sup> | ±0.5% of m.v. (+100 to +150 °C)<br>±0.2 °C (-25 to +74.9 °C)<br>±0.4 °C (remaining range) | 8 s             | 0613 3311 |
| ◆ Robust NTC food penetration probe with special handle, reinforced PUR cable, Fixed cable  |  115 mm<br>Ø 5 mm 30 mm<br>Ø 3.5 mm | -25 to +150 °C <sup>2)</sup> | ±0.5% of m.v. (+100 to +150 °C)<br>±0.2 °C (-25 to +74.9 °C)<br>±0.4 °C (remaining range) | 7 s             | 0613 2411 |
| ◆ Frozen food probe NTC, corkscrew design (incl. plug-in wire), Plug-in cable               |  110 mm<br>Ø 8 mm 30 mm<br>Ø 4 mm   | -50 to +140 °C <sup>2)</sup> | ±0.5% of m.v. (+100 to +140 °C)<br>±0.2 °C (-25 to +74.9 °C)<br>±0.4 °C (remaining range) | 20 s            | 0613 3211 |

- ◆ 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)

# Calibratable probes

| Probe type                                                                                                                     | Dimensions<br>Probe shaft/probe shaft tip                                           | Measuring<br>range | Accuracy                                                                                  | t <sub>99</sub> | Part no.  |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------|-----------------|-----------|
| <b>Pt100</b>                                                                                                                   |                                                                                     |                    |                                                                                           |                 |           |
| ◆ Waterproof Pt100 immersion/penetration probe, calibratable, Fixed cable 1.2 m                                                |    | -50 to +300 °C     | Class A                                                                                   | 12 s            | 0614 1272 |
| ◆ Robust stainless steel Pt100 food probe IP65, calibratable, Fixed cable 1.2 m                                                |    | -50 to +300 °C     | Class A                                                                                   | 10 s            | 0614 2272 |
| <b>NTC</b>                                                                                                                     |                                                                                     |                    |                                                                                           |                 |           |
| ◆ Waterproof NTC immersion/penetration probe, calibratable, Fixed cable 1.2 m                                                  |    | -25 to +120 °C     | ±0.5% of m.v. (+100 to +120 °C)<br>±0.2 °C (-25 to +74.9 °C)<br>±0.4 °C (remaining range) | 10 s            | 0614 1212 |
| ◆ Accurate, robust NTC air probe, calibratable, Fixed cable 1.2 m                                                              |   | -25 to +120 °C     | ±0.5% of m.v. (+100 to +120 °C)<br>±0.2 °C (-25 to +74.9 °C)<br>±0.4 °C (remaining range) | 60 s            | 0614 1712 |
| ◆ Stainless steel NTC food probe, calibratable (IP65), PUR cable can be used up to +80°C, IP54 plug-in connection, Fixed cable |  | -25 to +120 °C     | ±0.5% of m.v. (+100 to +120 °C)<br>±0.2 °C (-25 to +74.9 °C)<br>±0.4 °C (remaining range) | 10 s            | 0614 2211 |

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

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Subject to change without notice.