

Datasheet  
testo 922

Be sure. **testo**

## Temperature measuring instrument (2-channel)

testo 922 - Differential temperature measuring instrument for TC Type K with App connection

Easy, fast and precise differential temperature measurement with dual thermocouple Type K probes (2 TC Type K probes included)

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

Wide range of applications due to large measuring range from -58 to 1,832 °F

Large probe selection optional and compatible with commercially available TC Type K sensors

Audible alarm sounds if a limit value is exceeded



Professionals in **industry and trade** value the compact testo 922 differential temperature measuring instrument for its versatility. The testo 922 not only determines temperatures quickly and accurately, but also does a direct calculation of the differential temperature with its wide measuring range from -58 to 1832 °F. This means that measurements can be completed quickly, and reading documented by the free testo Smart App for smartphones and tablets. Measuring temperature has never been even easier to complete the job in a single effort.

A typical application for the testo 922 is, for example, the control of the supply/return temperature on heating circuit

manifolds. Two Type K thermocouple probes are included, but the testo 922 is also compatible with other commercially available TC Type K probes.

The testo Smart App not only supports you with the documentation of your measurement results. The smart assistant also takes care of configuring the testo 922 while displaying and storing the measured values for you and turns your smartphone into a second display.

and displaying and storing the measured values for you. A particularly practical feature: The App also turns your smartphone into a second display.

# Ordering data / technical data / accessories

## testo 922

testo 922, 2-channel temperature measuring instrument TC Type K with App connection and audible alarm, incl. transport bag, 2 x TC Type K probes\*, calibration protocol and 3 x AA batteries

Order no. 0563 0922



\* Versatile flexible and fast-reaction probes (TC Type K, Class 1) with glass silk sheathed cable (cable length 800 mm)

## TopSafe

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

Order no. 0516 0224




| Sensor type            | TC Type K  |
|------------------------|--|
| Measuring range        | -58 to 1,832 °F                                      |
| Accuracy ±1 digit      | ±(0.9 °F + 0.3% of m.v.) (-58 to 1832 °F)            |
| Resolution             | 0.1 F (-58 to 931.8F)<br>1 °F (rem. measuring range) |
| General technical data |  |
| Operating temperature  | -4° to 122 °F  |
| Storage temperature    | -4° to 122 °F  |
| Battery type           | 3 x AA   |
| Battery life           | 120 h  |
| Dimensions             | 5.3 x 2.4 x 1.1 in                                   |
| Weight                 | 0.42 lbs.  |
| Protection class       | IP40<br>with TopSafe: IP65                           |
| Housing material       | ABS + PC / TPE                                       |

| 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 |


**\* for NIST probe calibrations, please contact testo for more details prior to purchase**

### The testo Smart App

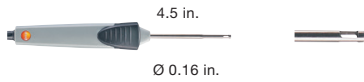
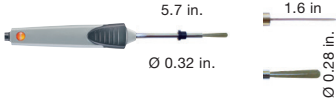
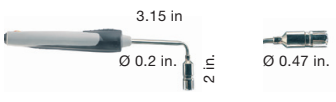
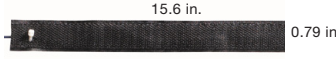
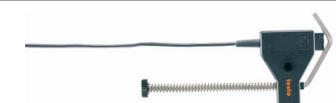
- Simple and fast: Measurement menus for numerous applications provide optimum support in configuring and carrying out the measurement
- Clear graphical presentation of readings, e.g. as a table, for quick interpretation of results
- Create digital measurement reports including photos as PDF/CSV files on site and send via e-mail



Free download  
for Android and iOS







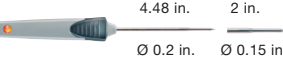

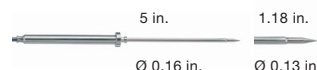






# Temperature probes

| Probe type   | Probe shaft/probe shaft tip dimensions  | Measuring range | Accuracy              | Response time | Order no. |
|--|---|-----------------|-----------------------|---------------|-----------|
| Robust air probe, TC Type K, fixed cable   |    | -76 to 752 °F   | Class 2 <sup>1)</sup> | 200 sec       | 0602 1793 |
| Very fast-reaction surface probe with sprung thermocouple strip, also suitable for uneven surfaces, measuring range briefly up to 932 °F, TC Type K, fixed cable                                       |    | -76 to 572 °F   | Class 2 <sup>1)</sup> | 3 sec         | 0602 0393 |
| Fast-reaction paddle surface probe, for measurements in places that are difficult to access, e.g. narrow openings and cracks, TC Type K, fixed cable   |    | 32 to 572 °F    | Class 2 <sup>1)</sup> | 5 sec         | 0602 0193 |
| Precise, watertight surface probe with small measuring head for even surfaces, TC Type K, fixed cable  |    | -76 to 1,832 °F | Class 1 <sup>1)</sup> | 20 sec        | 0602 0693 |
| Very fast-reaction surface probe with sprung thermocouple strip, angled for uneven surfaces, measuring range briefly up to 932 °F, TC Type K, fixed cable  |   | -76 to 572 °F   | Class 2 <sup>1)</sup> | 3 sec         | 0602 0993 |
| Surface temperature probe TC Type K, with telescope max. 39 in., for measurements in locations that are difficult to access, fixed cable 5.25 ft. (correspondingly shorter when telescope is extended) |  | -58 to 482 °F   | Class 2 <sup>1)</sup> | 3 sec         | 0602 2394 |
| Magnetic probe, adhesive power approx. 20 N, with adhesive magnets, for measurements on metal surfaces, TC Type K, fixed cable   |  | -58 to 338 °F   | Class 2 <sup>1)</sup> | 150 sec       | 0602 4792 |
| Magnetic probe, adhesive power approx. 10 N, with adhesive magnets, for higher temperatures, for measurements on metal surfaces, TC Type K, fixed cable  |  | -58 to 752 °F   | Class 2 <sup>1)</sup> |               | 0602 4892 |
| Watertight surface probe with wider measuring tip for even surfaces, TC Type K, fixed cable  |  | -76 to 752 °F   | Class 2 <sup>1)</sup> | 30 sec        | 0602 1993 |
| Pipe wrap probe with Velcro strip, for measuring temperatures on pipes with diameters up to max. 4.7 in., Tmax 248 °F, TC Type K, fixed cable  |  | -58 to 248 °F   | Class 1 <sup>1)</sup> | 90 sec        | 0628 0020 |
| Pipe wrap probe for pipe diameters 0.2 to 2.5 in., with interchangeable measuring head, measuring range briefly up to 536 °F, TC Type K, fixed cable   |  | -76 to 266 °F   | Class 2 <sup>1)</sup> | 5 sec         | 0602 4592 |
| Replacement measuring head for pipe wrap probe, TC Type K  |  | -76 to 266 °F   | Class 2 <sup>1)</sup> | 5 sec         | 0602 0092 |

<sup>1)</sup> According to standard EN 60584-2, the accuracy of Class 1 refers to -40 to 1,832 °F (Type K), of Class 2 to -40 to 2,192 °F (Type K) and of Class 3 to -328 to 104 °F (Type K). A probe only ever complies with one accuracy class.

# Temperature probes

| Probe type   | Probe shaft/probe shaft tip dimensions   | Measuring range | Accuracy              | t <sub>99</sub> | Order no. |
|--|--|-----------------|-----------------------|-----------------|-----------|
| Clamp probe for measurements on pipes, pipe diameters 0.5 to 2.5 in (max. 1"), measuring range briefly up to 226 °F, TC Type K, fixed cable                            |   | -58 to 212 °F   | Class 2 <sup>1)</sup> | 5 sec           | 0602 4692 |
| Precise and fast immersion probe, flexible, watertight, TC Type K, fixed cable   |   | -76 to 1,832 °F | Class 1 <sup>1)</sup> | 2 sec           | 0602 0593 |
| Ultra-fast, watertight immersion/penetration probe, TC Type K, fixed cable   |   | -76 to 1,472 °F | Class 1 <sup>1)</sup> | 3 sec           | 0602 2693 |
| Immersion measuring tip, flexible, TC Type K   |   | -40 to 1832 °F  | Class 1 <sup>1)</sup> | 5 sec           | 0602 5792 |
| Immersion measuring tip, flexible, TC Type K   |   | -328 to 104 °F  | Class 3 <sup>1)</sup> | 5 sec           | 0602 5793 |
| Immersion measuring tip, flexible, for measurements in air/flue gases (not suitable for measurements in smelters), TC Type K   |    | -40 to 1,832 °F | Class 1 <sup>1)</sup> | 4 sec           | 0602 5693 |
| Watertight immersion/penetration probe, TC Type K, fixed cable   |   | -76 to 752 °F   | Class 2 <sup>1)</sup> | 7 sec           | 0602 1293 |
| Flexible, low-mass immersion measuring tip, ideal for measurements in small volumes, such as Petri dishes, or for surface measurements (e.g. fixed with adhesive tape) | <br><small>TC Type K, 2 m, FEP-insulated thermal wire, temperature-resistant up to 392 °F, oval cable with dimensions: 0.09 x 0.06 in</small> | -40 to 1,832 °F | Class 1 <sup>1)</sup> | 1 sec           | 0602 0493 |
| Watertight stainless steel food probe (IP65), TC Type K, fixed cable   |   | -76 to 752 °F   | Class 2 <sup>1)</sup> | 7 sec           | 0602 2292 |
| Thermocouple with TC plug, flexible, length 31.5 in., fibreglass, TC Type K  |   | -58 to 752 °F   | Class 2 <sup>1)</sup> | 5 sec           | 0602 0644 |
| Thermocouple with TC plug, flexible, length 59 in., fibreglass, TC Type K  |   | -58 to 752 °F   | Class 2 <sup>1)</sup> | 5 sec           | 0602 0645 |
| Thermocouple with TC plug, flexible, length 59 in., PTFE, TC Type K  |   | -58 to 482 °F   | Class 2 <sup>1)</sup> | 5 sec           | 0602 0646 |
| Globe thermometer Ø 5.9 in., TC Type K, for measuring radiant heat   |   | 32 to 248 °F    | Class 1 <sup>1)</sup> |                 | 0602 0743 |

<sup>1)</sup> According to standard EN 60584-2, the accuracy of Class 1 refers to -40 to 1,832 °F (Type K), of Class 2 to -40 to 2,192 °F (Type K) and of Class 3 to -328 to 104 °F (Type K). A probe only ever complies with one accuracy class.

**Information about surface measurement:**

- The specified response times  $t_{99}$  are measured on polished steel or aluminium plates at 140 °F.
- The specified accuracies are sensor accuracies.
- Their accuracy in your application depends on the surface properties (roughness), the material of the measurement object (thermal capacity and heat transfer) and the sensor accuracy. Testo will produce a corresponding calibration certificate for the deviations of your measurement system in your application. For this, Testo uses a surface test bed developed in cooperation with the PTB (Physikalisch Technische Bundesanstalt - National Metrology Institute of Germany).