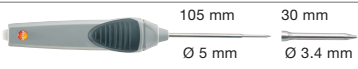


# Radio probes

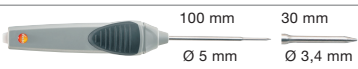
## Radio probes for immersion/penetration measurements

Part no.

Radio immersion/penetration probe, NTC, approval for the countries: DE, FR, UK, BE, NL, ES, IT, SE, AT, DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO; Radio freq. 869.85 MHz FSK					0613 1001
Radio immersion/penetration probe, NTC, approval for USA, CA, CL; Radio freq. 915.00 MHz FSK					0613 1002
Dimensions Probe shaft/probe shaft tip	Measuring 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	

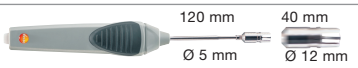
## Radio handles with probe head for air-/ immersion-penetration-meas.

Part no.

Radio handle for plug-in probe heads, incl. T/C adapter, approval for the countries: DE, FR, UK, BE, NL, ES, IT, SE, AT, DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO; Radio freq. 869.85 MHz FSK					0554 0189
T/C probe head for air/immersion/penetration measurement (T/C Type K)					0602 0293
Radio handle for plug-in probe heads, incl. T/C adapter, approval for USA, CA, CL; Radio freq. 915.00 MHz FSK					0554 0191
T/C probe head for air/immersion/penetration measurement (T/C Type K)					0602 0293
Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	Resolution	t <sub>99</sub>	
	-50 to +350 °C Short-term to +500 °C	Radio handle: ±(0.5 °C +0.3% of m.v.) (-40 to +500 °C) ±(0.7 °C +0.5% of m.v.) (remaining range) T/C probe head: Class 2	0.1 °C (-50 to +199.9 °C) 1.0 °C (remaining range)	t <sub>99</sub> (in water) 10 s	


## Radio handles with probe head for surface measurement

Part no.

Radio handle for plug-in probe heads, incl. T/C adapter, approval for the countries: DE, FR, UK, BE, NL, ES, IT, SE, AT, DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO; Radio freq. 869.85 MHz FSK					0554 0189
T/C probe head for surface measurement (T/C Type K)					0602 0394
Radio handle for plug-in probe heads, incl. T/C adapter, approval for USA, CA, CL; Radio freq. 915.00 MHz FSK					0554 0191
T/C probe head for surface measurement (T/C Type K)					0602 0394
Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	Resolution	t <sub>99</sub>	
	-50 to +350 °C Short-term to +500 °C	Radio handle: ±(0.5 °C +0.3% of m.v.) (-40 to +500 °C) ±(0.7 °C +0.5% of m.v.) (remaining range) T/C probe head: Class 2	0.1 °C (-50 to +199.9 °C) 1.0 °C (remaining range)	5 s	

## Radio handles for attachable T/C probes

Part no.

Radio handle for plug-in probe heads, incl. T/C adapter, approval for the countries: DE, FR, UK, BE, NL, ES, IT, SE, AT, DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO ; Radio freq. 869.85 MHz FSK					0554 0189
Radio handle for plug-in probe heads, incl. T/C adapter, approval for USA, CA, CL; Radio freq. 915.00 MHz FSK					0554 0191
Illustration	Measuring range	Accuracy	Resolution		
	-50 to +1000 °C	±(0.7 °C +0.3% of m.v.) (-40 to +900 °C) ±(0.9 °C +0.5% of m.v.) (remaining range)	0.1 °C (-50 to +199.9 °C) 1.0 °C (remaining range)		

## Technical data Radio probes

### Radio immersion/penetration probe, NTC

Battery type	2 x 3V button cell (CR 2032)
Battery life	150 h (meas. rate 0.5 s) 2 months (meas. rate 10 s)

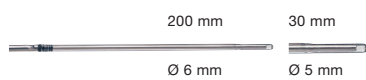


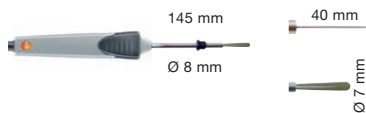

### Radio handle

Battery type	2 AAA micro batteries
Battery life	215 h (meas. rate 0.5 s) 6 months (meas. rate 10 s)

### Common Technical Data

Measuring rate	0.5 s or 10 s, adjustable on handle
Radio coverage	Up to 20 m (without obstructions)
Radio transmission	Unidirectional
Operating temperature	-20 to +50 °C
Storage temperature	-40 to +70 °C

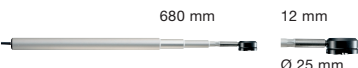



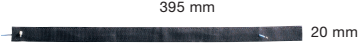
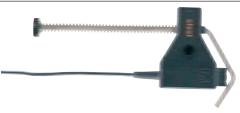
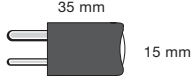

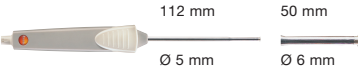


# Probes

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t <sub>99</sub>	Part no.
<b>Laboratory probes</b>					
Laboratory probe Pt100, glass-coated, exchangeable glass pipe (Duran 50), resistant to corrosive substances, Fixed cable		-50 to +400 °C	Class A (-50 to +300 °C), Class B (remaining range) <sup>1)</sup>	45 s 12 s Without protective glass	0609 7072
<b>Air probes</b>					
Robust air probe, T/C Type K, Fixed cable		-60 to +400 °C	Class 2 <sup>2)</sup>	25 s	0602 1793
Efficient, robust air probe, Pt100, Fixed cable		-50 to +400 °C	Class A (-50 to +300 °C), Class B (remaining range) <sup>1)</sup>	70 s	0609 1773
Robust, affordable air probe, T/C Type T, Fixed cable 1.2 m		-50 to +350 °C	±0.2 °C (-20 to +70 °C) Class 1 (remaining range) <sup>2)</sup>	25 s	0603 1793
<b>Surface probes</b>					
Robust, waterproof surface temperature probe, Pt100, Fixed cable		-50 to +400 °C	Class B <sup>1)</sup>	40 s	0609 1973
Fast-action surface probe with sprung thermocouple strip, also for uneven surfaces, measurement range short-term to +500°C, TC Type K, Fixed cable		-60 to +300 °C	Class 2 <sup>2)</sup>	3 s	0602 0393
Fast-reaction paddle surface probe, for measurements in inaccessible places, e.g. narrow apertures and slots, TC Type K, Fixed cable		0 to +300 °C	Class 2 <sup>2)</sup>	5 s	0602 0193
Efficient, waterproof surface probe with small measurement head for flat surfaces, TC Type K, Fixed cable		-60 to +1000 °C	Class 1 <sup>2)</sup>	20 s	0602 0693
Fast-action surface probe with sprung thermocouple strip, bent, also for uneven surfaces, measurement range short-term to +500°C, TC Type K, Fixed cable		-60 to +300 °C	Class 2 <sup>2)</sup>	3 s	0602 0993

1) According to standard 60751, the accuracies of Class A and B refer to -200 to +600 °C (Pt100)

2) According to standard EN 60584-2, the accuracy of Class 1 refers to -40 to +1000 °C (Type K), Class 2 to -40 to +1200 °C (Type K), Class 3 to -200 to +40 °C (Type K). A probe always corresponds to only **one** accuracy class.

# Probes

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t <sub>99</sub>	Part no.
<b>Surface probes</b>					
Flat head surface probe with telescopic handle max. 680 mm for measurements at hard-to-access points, TC Type K, Fixed cable 1.6 m (correspondingly shorter when telescope extended)	 680 mm    12 mm Ø 25 mm	-50 to +250 °C	Class 2 <sup>2)</sup>	3 s	0602 2394
Magnetic probe, adhesive force approx. 20 N, with magnets, for measurements on metal surfaces, TC Type K, Fixed cable	 35 mm    Ø 20 mm	-50 to +170 °C	Class 2 <sup>2)</sup>	150 s	0602 4792
Magnetic probe, adhesive force approx. 10 N, with magnets, for higher temp., for measurements on metal surfaces, TC Type K, Fixed cable	 75 mm    Ø 21 mm	-50 to +400 °C	Class 2 <sup>2)</sup>		0602 4892
Waterproof surface probe with widened measurement tip for flat surfaces, T/C Type K, Fixed cable	 115 mm    Ø 5 mm    Ø 6 mm	-60 to +400 °C	Class 2 <sup>2)</sup>	30 s	0602 1993
Pipe wrap probe with velcro strip; for temperature measurement on pipes with diameter up to max. 120 mm; Tmax. +120 °C; TC Type K, Fixed cable	 395 mm    20 mm	-50 to +120 °C	Class 1 <sup>2)</sup>	90 s	0628 0020
Pipe wrap probe for pipe diameter 5 to 65 mm, with exchangeable measuring head. Meas. range short-term up to +280°C, TC Type K, Fixed cable		-60 to +130 °C	Class 2 <sup>2)</sup>	5 s	0602 4592
Spare meas. head for pipe wrap probe, TC Type K	 35 mm    15 mm	-60 to +130 °C	Class 2 <sup>2)</sup>	5 s	0602 0092
Clamp probe for measurements on pipes, pipe diameter 15 to 25 mm (max. 1"), meas. range short-term up to +130°C, TC Type K, Fixed cable		-50 to +100 °C	Class 2 <sup>2)</sup>	5 s	0602 4692
Waterproof surface probe with widened measurement tip for flat surfaces, T/C Type T, Fixed cable 1.2 m	 112 mm    50 mm Ø 5 mm    Ø 6 mm	-50 to +350 °C	±0.2 °C (-20 to +70 °C) Class 1 (remaining range) <sup>2)</sup>	30 s	0603 1993
<b>Immers./penetr. probes</b>					
Robust, waterproof Pt100 immersion/penetration probe, Fixed cable	 114 mm    50 mm Ø 5 mm    Ø 3.7 mm	-50 to +400 °C	Class A (-50 to +300 °C), Class B (remaining range) <sup>1)</sup>	12 s	0609 1273
Highly accurate Pt100 immersion/penetration probe incl. calibration protocol (test points 0 °C and +157 °C), Fixed cable	 295 mm    Ø 4 mm	-40 to +300 °C	±0.05 °C (0 to +100 °C) ±(0.05 °C +0.05% of mv) (remaining range)	60 s	0614 0235

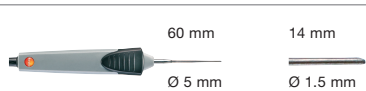
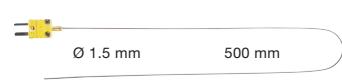
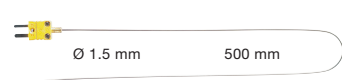

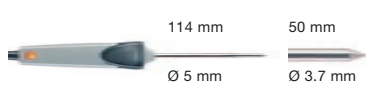

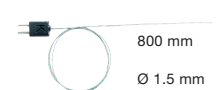


1) According to standard 60751, the accuracies of Class A and B refer to -200 to +600 °C (Pt100)

2) According to standard EN 60584-2, the accuracy of Class 1 refers to -40 to +1000 °C (Type K), Class 2 to -40 to +1200 °C (Type K), Class 3 to -200 to +40 °C (Type K). A probe always corresponds to only **one** accuracy class.

#### Information on surface measurement:

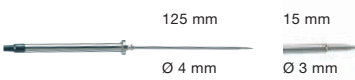

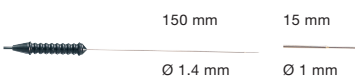



- The response times t<sub>99</sub> stated are measured on ground steel or aluminium plates at +60 °C.
- The stated accuracies are sensor accuracies.
- The accuracy in your application is dependent on the surface structure (roughness), material of the measurement object (heat capacity and heat transfer), as well as sensor accuracy. Testo creates a corresponding calibration certificate for the deviations of your measurement system in your application. For this purpose, Testo uses a surface test bench developed in cooperation with the PTB (Physikalisch Technische Bundesanstalt).

# Probes

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t <sub>99</sub>	Part no.
<b>Immers./penetr. probes</b>					
Efficient and fast-action immersion probe, waterproof, TC Type K, Fixed cable		-60 to +1000 °C	Class 1 <sup>2)</sup>	2 s	0602 0593
Fast-action, waterproof immersion/penetration probe, TC Type K, Fixed cable		-60 to +800 °C	Class 1 <sup>2)</sup>	3 s	0602 2693
Immersion tip, flexible, TC Type K		-200 to +1000 °C	Class 1 <sup>2)</sup>	5 s	0602 5792
Immersion tip, flexible, TC Type K		-200 to +40 °C	Class 3 <sup>2)</sup>	5 s	0602 5793
Immersion measurement tip, flexible, for measurements in air/exhaust gases (not suitable for measurements in smelters), TC Type K		-200 to +1300 °C	Class 1 <sup>2)</sup>	4 s	0602 5693
Waterproof immersion/penetration probe, TC Type K, Fixed cable		-60 to +400 °C	Class 2 <sup>2)</sup>	7 s	0602 1293
Flexible, low-mass immersion measurement tip, ideal for measurements in small volumes such as petri dishes, or for surface measurements (e.g. attached with adhesive tape), TC Type K, 2 m, FEP insulated thermal wire, temperature proof up to 200 °C, oval wire with dimensions: 2.2 mm x 1.4 mm		-200 to +1000 °C	Class 1 <sup>2)</sup>	1 s	0602 0493
<b>Thermocouples</b>					
Thermocouple with TC adapter, flexible, 800mm long, fibre glass, TC Type K		-50 to +400 °C	Class 2 <sup>2)</sup>	5 s	0602 0644
Thermocouple with TC adapter, flexible, 1500mm long, fibre glass, TC Type K		-50 to +400 °C	Class 2 <sup>2)</sup>	5 s	0602 0645
Thermocouple with TC adapter, flexible, 1500mm long, PTFE, TC Type K		-50 to +250 °C	Class 2 <sup>2)</sup>	5 s	0602 0646

<sup>2)</sup> According to standard EN 60584-2, the accuracy of Class 1 refers to -40 to +1000 °C (Type K), Class 2 to -40 to +1200 °C (Type K), Class 3 to -200 to +40 °C (Type K). A probe always corresponds to only **one** accuracy class.

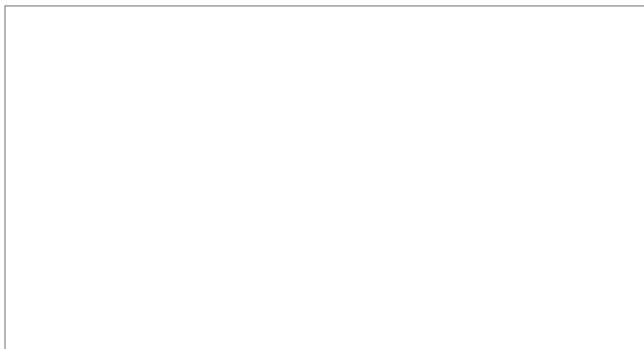
# Probes

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Accuracy	t <sub>99</sub>	Part no.
<b>Food probes</b>					
Robust, Pt100 stainless steel food probe (IP65), Fixed cable	 125 mm Ø 4 mm      15 mm Ø 3 mm	-50 to +400 °C	Class A (-50 to +300 °C), Class B (remaining range) <sup>1)</sup>	10 s	0609 2272
Waterproof food probe made of stainless steel (IP65), TC Type K, Fixed cable	 125 mm Ø 4 mm      30 mm Ø 3.2 mm	-60 to +400 °C	Class 2 <sup>2)</sup>	7 s	0602 2292
Waterproof super-fast needle probe, highly accurate measurements without visible penetration hole. Specially for food, ideal for hamburgers, steaks, pizza, eggs etc., T/C Type K, Fixed cable	 150 mm Ø 1.4 mm      15 mm Ø 1 mm	-60 to +250 °C	Class 1 <sup>2)</sup>	1s	0628 0026
Waterproof robust immersion/penetration probe with metal protection hose Tmax +230 °C, e.g. for monitoring temp. in cooking oil, T/C Type K, Fixed cable	 240 mm Ø 4 mm	-50 to +230 °C	Class 1 <sup>2)</sup>	15 s	0628 1292
Stable, robust surface probe with PTFE standing area and metal protection hose Tmax +230 °C for cooking surfaces, heating and baking trays, T/C Type K, Fixed cable	 120 mm Ø 60 mm	-50 to +230 °C	Class 2 <sup>2)</sup>	45 s	0628 9992
Robust food penetration probe with special handle, reinforced cable (PVC), T/C Type T, Fixed cable	 115 mm Ø 5 mm      30 mm Ø 3.5 mm	-50 to +350 °C	±0.2 °C (-20 to +70 °C) Class 1 (remaining range) <sup>2)</sup>	6 s	0603 2492

1) According to standard 60751, the accuracies of Class A and B refer to -200 to +600 °C (Pt100)  
 2) According to standard EN 60584-2, the accuracy of Class 1 refers to -40 to +1000 °C (Type K), Class 2 to -40 to +1200 °C (Type K), Class 3 to -200 to +40 °C (Type K).  
 A probe always corresponds to only **one** accuracy class.

0981 9354/msp/A/01.2014

Subject to change without notice.



Testo Inc.  
 40 White Lake Rd.  
 Sparta, NJ 07871  
 800-227-0729  
 Email: info@testo.com

[www.testo.com](http://www.testo.com)