

Testo Sensor

Stationary temperature probes

Find the right Testo Sensor temperature probe quickly and easily:

- Immersion probes
 - Surface probes
 - Screw-in probes
 - Air probes
 - Pressure-tight probes
 - Magnetic probes
 - Housing probes
-



The stationary standard temperature probes from the Testo Sensor range can be individually tailored to your customer's application.

Just select the respective options.

The configurator on the following pages will support you in your selection.

For assistance with your questions, please contact info@testo-sensor.de

Overview of probe types 02 / 03 / 04 / 06 / 08

Standard temperature probes can be tailored to your own specific measuring requirements. Just choose the relevant options. You can use the selection assistance to help you choose the options.

Type 02 Cable probe, probe shaft (Ø 3 mm), connected directly to the line

Temperature range: Pt100/Type K/Type J: -50 to +180 °C (-58 to +356 °F)
 NTC: -50 to +150 °C (-58 to +302 °F)

Fixed e.g. by clamp screw connection

Process: liquids

Type 03 Cable probe, probe shaft (Ø 6 mm), connected directly to the line

Temperature range: Pt100/Type K/Type J: -50 to +180 °C (-58 to +356 °F)
 NTC: -50 to +150 °C (-58 to +302 °F)

Fixed e.g. by screwed bush

Process: liquids

Type 04 Process temperature probe, probe shaft (Ø very small), connected directly to the line

Temperature range: Pt100: -50 to +400 °C (-58 to +752 °F)
 TC Type K: -200 to +1200 °C (-328 to +2192 °F)
 TC Type J: -200 to +700 °C (-328 to +1292 °F)
 NTC: -50 to +150 °C (-58 to +302 °F)

Fixed e.g. by clamp screw connection

Liquids and gases

Type 06 Immersion probe for monitoring in containers, pipelines etc., with connecting head

Temperature range: cf. Type 04

Connecting head with clamps (not possible with transmitter, cf. p. 101)

Fixed e.g. by clamp screw connection

Process: liquids

Type 08 Immersion probe for extremely aggressive media, max. temperature +260 °C (+500 °F), IP67

Temperature range: Pt100: -50 to +260 °C (short-term to +300 °C) (-58 to +500 °F, +572 °F)

Aggressive liquids

Ordering information for types 02 / 03 / 04 / 06 / 08

Selection advice: Light-blue fields cannot be combined with dark-blue fields	Order no.	6000	6000	6000	6000	6000
		0000	0000	0000	0000	0000
		Type 02	Type 03	Type 04	Type 06	Type 08
Measuring sensors:						
Pt100 class B		A 01	A 01	A 01	A 01	On request
Pt100 class A		A 02	A 02	A 02	A 02	A 02
Pt100 1/3 class B		A 03	A 03	A 03	A 03	On request
Pt100 1/10 class B		A 04	A 04	A 04	A 04	On request
Type K (NiCr-Ni) class 1				A 05	A 05	
Type K (NiCr-Ni) class 2		A 06	A 06	A 06	A 06	
Type J (Fe-CuNi) class 1				On request	On request	
Type J (Fe-CuNi) class 2		On request	On request	On request	On request	
NTC 5 kOhm		A 09	A 09	A 09	A 09	
NTC 10 kOhm		A 10	A 10	A 10	A 10	
Probe shaft Ø:						
Ø 0.25 mm	} (for TC only)			B 01		
Ø 0.5 mm				B 02		
Ø 1.0 mm				B 03		
Ø 1.5 mm				B 04		
Ø 1.6 mm (Pt100 class B only)				On request		
Ø 3.0 mm		B 06		B 06	B 06	
Ø 5.0 mm					B 08	
Ø 6.0 mm (for Type 06 Pt100 and NTC only)			B 09		B 09	
Probe shaft length						
48 mm			C 03	C 03	C 03	
60 mm			C 04	C 04	C 04	C 04
70 mm		C 05	C 05	C 05	C 05	
100 mm			C 06	C 06	C 06	
200 mm			C 08	C 08	C 08	
300 mm			C 09	C 09	C 09	
400 mm			C 10	C 10	C 10	
500 mm			C 11	C 11	C 11	
Please indicate other probe shaft lengths in mm			C 99	C 99	C 99	
Connecting line for Pt100 and NTC						
Insulated PVC, Ø 4.5 mm, 4 x 0.14 mm ²		D 01	D 01	D 01		
Insulated PVC, shielded, Ø 5 mm, 4 x 0.14 mm ²		D 02	D 02	D 02		
Insulated silicone, Ø 4.5 mm, 4 x 0.25 mm ²		D 03	D 03	D 03		
Insulated FEP, Ø 4 mm, 4 x 0.22 mm ² , shielded		D 04	D 04	D 04		
Insulated glass fibre, external wire braiding, Ø 4.5 mm, 4 x 0.25 mm ²		D 05	D 05	D 05		
Insulated PFA, Ø 4 mm, 4 x 0.25 mm ²		D 06	D 06	D 06		D 06
Connecting line for thermocouple						
Insulated PVC, Ø 4 mm, 2 x 0.22 mm ²		D 11	D 11	D 11		
Insulated PVC, shielded, Ø 5 mm, 2 x 0.25 mm ²		D 12	D 12	D 12		
Insulated silicone, Ø 4 mm, 2 x 0.25 mm ²		D 13	D 13	D 13		
Insulated FEP, Ø 4.5 mm, 2 x 0.22 mm ²		D 14	D 14	D 14		
Insulated glass fibre, external wire braiding, Ø 3.6 mm, 2 x 0.22 mm ²		D 15	D 15	D 15		
Please indicate length of line (standard = 2 m)		E__m	E__m	E__m		E__m
Miscellaneous (omit code, if not selected):						
Pt100, NTC "vibration-proof" in thermal conductive paste, Tmax = 200 °C (+392 °F)		F 01	F 01	F 01	F 01	F 01
Metal antikink spring		F 02	F 02	F 02		
Connection plug						
Open wire ends		G 00	G 00	G 00		G 00
Miniature TC plug		G 03	G 03	G 03		
Miniature TC coupling		G 04	G 04	G 04		
TC plug		On request	On request	On request		
TC coupling		On request	On request	On request		

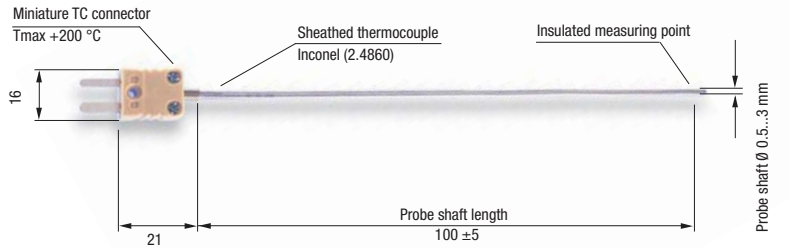
Sample order: Order code 6000 0000/Type 04/A 05/B 02/C 99/600/D 12/E 2.5 m/G 03

Process temperature probe type 04, TC type K, class 1, Ø 0.5 mm, probe shaft 600 mm, 2.5 m long cable (PVC shielded), mini TC connector

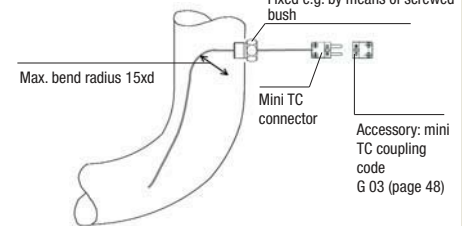
Overview of probe types Typ 09 / 10 / 11 / 12 / 13

The standard temperature probes can be tailored to your own specific measuring requirements. Just choose the relevant options. You can use the selection assistance to help you choose the options.

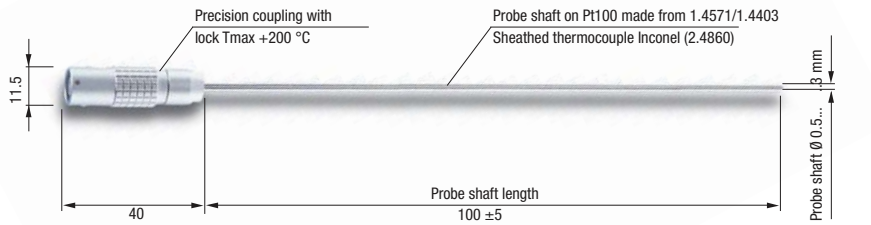
Type 09 Sheathed thermocouple probe, with TC connector for extremely rapid temperature recording. Probe shaft material Inconel



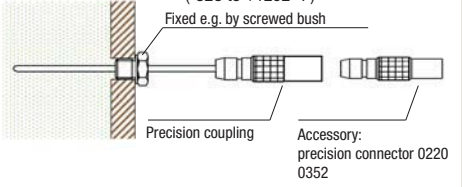
Temperature range: TC Type K: -200 to +1000 °C (-328 to +1832 °F)
TC Type J: -200 to +700 °C (-328 to +1292 °F)



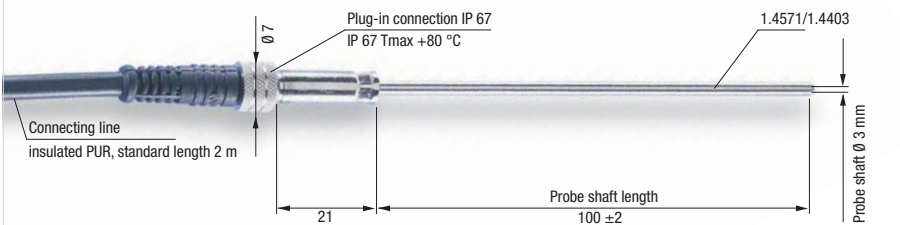
Type 10 Process temperature probe with precision coupling (Tmax. 200 °C). Probe shaft material Inconel



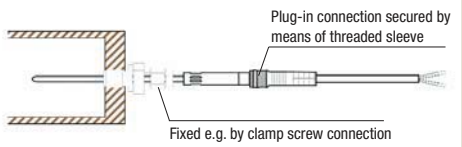
Temperature range: Pt100: -50 to +400 °C (-58 to +752 °F)
TC Typ K: -200 to +1000 °C (-328 to +1832 °F)
TC Typ J: -200 to +700 °C (-328 to +1292 °F)



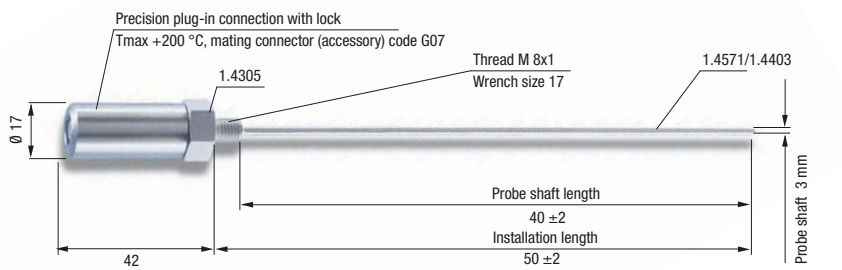
Type 11 Process temperature probe, connected via plug-in connection (connector Tmax 80 °C)



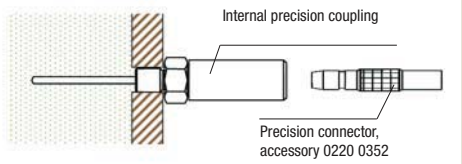
Temperature range: Pt100: -50 to +400 °C (-58 to +752 °F)



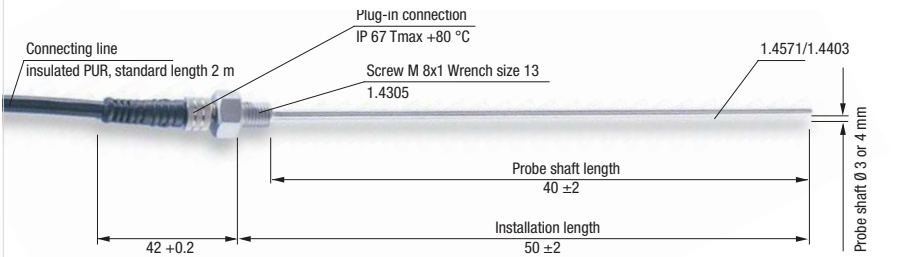
Type 12 Immersion probe with internal thread M 8x1, pressure tight to 500 bar



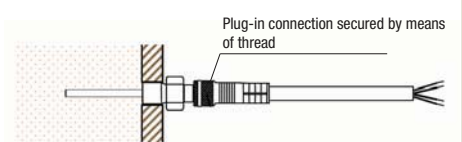
Temperature range: Pt100: -50 to +400 °C (-58 to +752 °F)
NTC: -50 to +150 °C (-58 to +302 °F)



Type 13 Immersion probe with thread M 8x1, plug-in connection secured via thread, connecting line, pressure tight to 500 bar



Temperature range: Pt100: -50 to +400 °C (-58 to +752 °F)
NTC: -50 to +150 °C (-58 to +302 °F)



Ordering information for types Typ 09 / 10 / 11 / 12 / 13

Order no.	6000	6000	6000	6000	6000
	0000	0000	0000	0000	0000
	Type 09	Type 10	Type 11	Type 12	Type 13
Selection advice: Light-blue fields cannot be combined with dark-blue fields					
Measuring sensors:					
Pt100 class B		A 01	A 01	A 01	A 01
Pt100 class A		A 02	A 02	A 02	A 02
Pt100 1/3 class B		A 03	A 03	A 03	A 03
Pt100 1/10 class B		A 04	A 04	A 04	A 04
Type K (NiCr-Ni) class 1	A 05	A 05			
Type K (NiCr-Ni) class 2	A 06	A 06			
Type J (Fe-CuNi) class 1	On request	On request			
Type J (Fe-CuNi) class 2	On request	On request			
NTC 5 kOhm (e.g. for testo hand-held instruments)		A 09	A 09	A 09	A 09
NTC 10 kOhm (e.g. for testostor 171 logger)		A 10	A 10	A 10	A 10
Probe shaft Ø:					
Ø 0.5 mm	} (only for TC)	B 02	B 02		
Ø 1.0 mm		B 03	B 03		
Ø 1.5 mm		B 04	B 04		
Ø 1.6 mm (Pt100 class B only)			B 05		
Ø 3.0 mm		B 06	B 06	B 06	B 06
Ø 4.0 mm		On request			B 07
Ø 5.0 mm		On request			On request
Probe shaft length					
40 mm	C 02	C 02	C 02	C 02	C 02
100 mm	C 06	C 06	C 06	C 06	C 06
200 mm	C 08	C 08	C 08	C 08	C 08
300 mm	C 09	C 09	C 09	C 09	C 09
400 mm	C 10	C 10	C 10	C 10	C 10
500 mm	C 11	C 11	C 11	C 11	C 11
Please indicate other probe shaft lengths in mm	C 99	C 99	C 99	C 99	C 99
Connecting line for Pt100 and NTC					
Insulated PUR with free end, length 2.0 m			D 07		D 07
Insulated PUR with free end, length 5.0 m			D 08		D 08
Insulated PUR with free end, length 7.5 m			D 09		D 09
Insulated PUR with free end, length 10.0 m			D 10		D 10
Miscellaneous (omit code, if not selected):					
Pt100, NTC "vibration-proof" in thermal conductive paste, Tmax = 200 °C (+392 °F)		F 01	F 01	F 01	F 01
Connection plug					
Open wire ends			G 00		G 00

Sample order: Order code type 6000 0000/Type 12/A 03/B 06/C 11
 Probe type 12 with precision coupling Pt100, 1/3 class B, probe shaft Ø 3 mm, 500 mm length

** no coupling, with connector only

Overview of probe types 14 / 15 / 17 / 18

The standard temperature probes can be tailored to your own specific measuring requirements. Just choose the relevant options. You can use the selection assistance to help you choose the options.

Type Screwed probe for hard-to-reach measuring points, pressure tight to 500 bar

Temperature range: Pt100/NTC: -50 to +80 °C (-58 to +176 °F)

Type Screw-on surface T/C probe (metal ring)

Temperature range: TC Type K/Type J: -200 to +400 °C (-328 to +752 °F)

Type Surface probe (cross-band) with probe shaft

Temperature range: TE Typ K: -50 to +180 °C / -58 to +356 °F (short-term 5 sec. to +400 °C / +752 °F)

Type Surface probe (cross-band) with thread M 12x1 (e.g. robot arm)

Temperature range: cf. Type 17

Ordering information for types 14 / 15 / 17 / 18

	6000 0000	6000 0000	6000 0000	6000 0000
	Type 14	Type 15	Type 17	Type 18
Selection advice: Light-blue fields cannot be combined with dark-blue fields				
Measuring sensors:				
Pt100 class B	A 01			
Pt100 class A	A 02			
Pt100 1/3 class B	A 03			
Pt100 1/10 class B	A 04			
Type K (class 1)		A 05		
Type K (class 2)			A 06	A 06
Type J (class 1)		On request		
NTC 5 kOhm	A 09			
NTC 10 kOhm	A 10			
Probe shaft length				
100 mm			C 06	
200 mm			C 08	
300 mm			C 09	
400 mm			C 10	
500 mm			C 11	
Please always indicate other probe shaft lengths in mm			C 99	
Connecting line for Pt100 and NTC				
Insulated PVC, Ø 4.5 mm, 4 x 0.14 mm ²	D 01			
Insulated PVC, shielded, Ø 5 mm, 4 x 0.14 mm ²	D 02			
Insulated silicone, Ø 4.5 mm, 4 x 0.25 mm ²	D 03			
Insulated FEP, Ø 4 mm, 4 x 0.22 mm ² , shielded	D 04			
Insulated glass fibre, external wire braiding, Ø 4.5 mm, 4 x 0.25 mm ²	D 05			
Insulated PFA, Ø 4 mm, 4 x 0.25 mm ²	D 06			
Connecting line for thermocouple				
Insulated PVC, Ø 4 mm, 2 x 0.22 mm ²			D 11	D 11
Insulated PVC, shielded, Ø 5 mm, 2 x 0.25 mm ²			D 12	D 12
Insulated silicone, Ø 4 mm, 2 x 0.25 mm ² shielded			D 13	D 13
Insulated FEP, Ø 4 mm, 2 x 0.22 mm ²			D 14	D 14
Insulated glass fibre, external wire braiding, Ø 3.6 mm, 2 x 0.22 mm ²		D 25*	D 15	D 15
Please indicate length of line (standard = 2 m)				
	E__m	E__m	E__m	E__m
Miscellaneous (omit code, if not selected):				
Pt100, NTC "vibration-proof" in thermal conductive paste, Tmax = 200 °C (+392 °F)	F 01			
Metal antikink spring	F 02		F 02	F 02
Connection plug				
Open wire ends	G 00	G 00	G 00	G 00
Miniature TC plug		G 03	G 03	G 03
Miniature TC coupling		G 04	G 04	G 04
TC plug		On request	On request	On request
TC coupling		On request	On request	On request

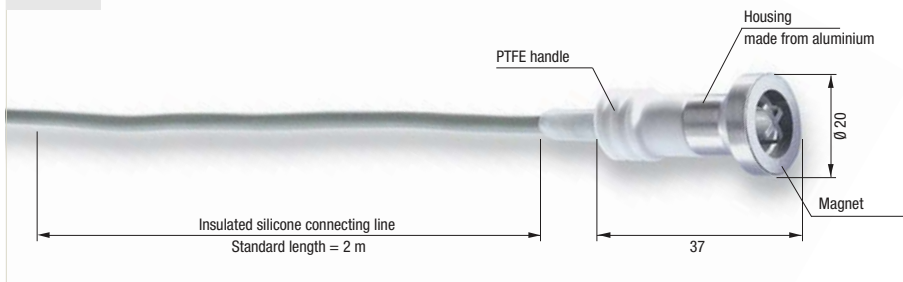
Sample order: Order code 6000 0000/Type 18/A 06/D 11/E 2.0/G 03
 Surface probe type 18 with sensor TC type K, class 2 and internal thread, PVC connecting line (length 2.0 m) and mini TC connector

*without external wire braiding
 Ø oval 1.8 x 1.2 mm,
 2 x 0.2 mm

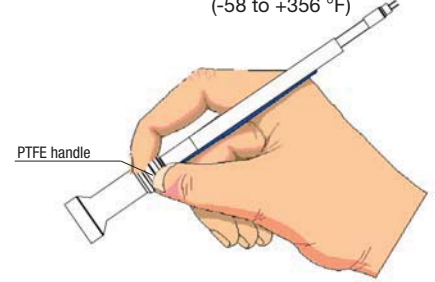
Overview of probe types 19 / 20 / 21 / 23 / 24

The standard temperature probes can be tailored to your own specific measuring requirements. Just choose the relevant options. You can use the selection advice to help you choose the options.

Type 19 Magnetic surface probe (cross-band) with PTFE handle



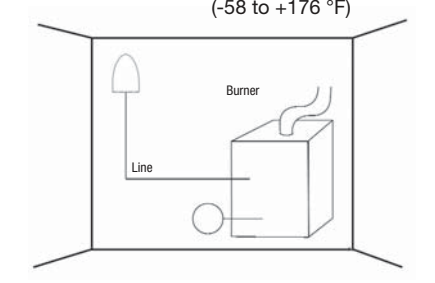
Temperature range: TC Type K: -50 to +180 °C (-58 to +356 °F)



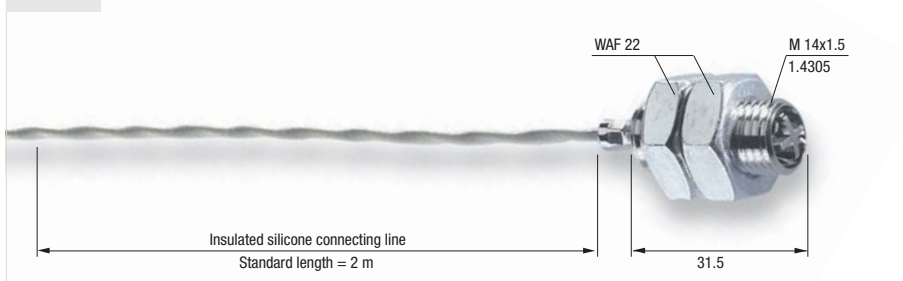
Type Ambient temperature probe, plastic housing, cast probe



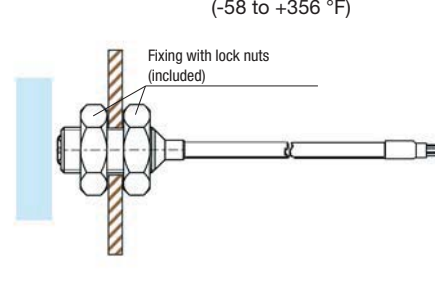
Temperature range: Pt100/NTC: -50 to +80 °C (-58 to +176 °F)



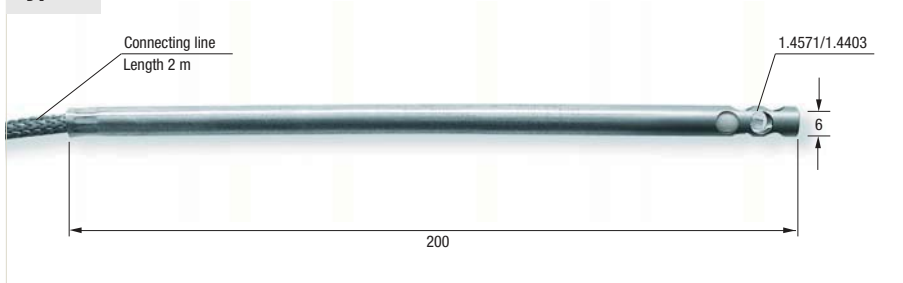
Type Surface probe (cross-band), flush front thread M 14x1.5 with lock nuts



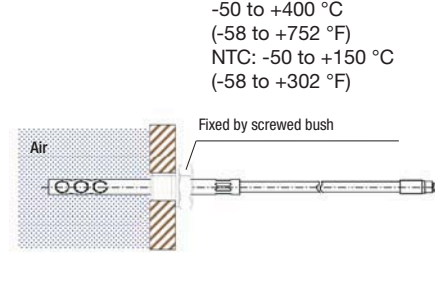
Temperature range: TC Type K: -50 to +180 °C (-58 to +356 °F)



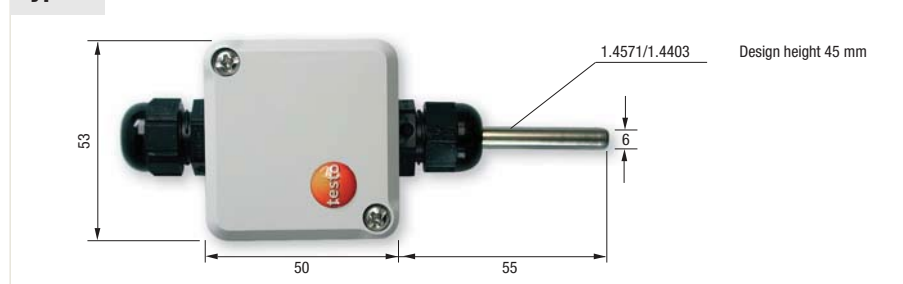
Type Air duct temperature probe



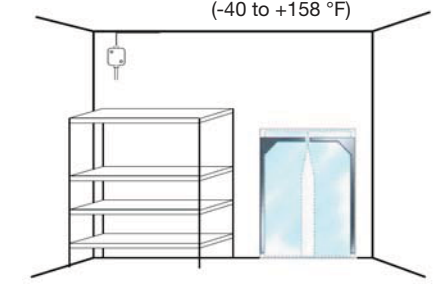
Temperature range: Pt100/Type K/Type J: -50 to +400 °C (-58 to +752 °F)
NTC: -50 to +150 °C (-58 to +302 °F)



Type Cold store and storage room temperature probe, with terminals in IP65 housing



Temperature range: Pt100/NTC: -40 to +70 °C (-40 to +158 °F)



Ordering information for types 19 / 20 / 21 / 23 / 24

Selection advice: Light-blue fields can not be combined with dark-blue fields	Order	6000	6000	6000	6000	6000
		0000	0000	0000	0000	0000
		Type 19	Type 20	Type 21	Type 23	Type 24
Measuring sensors:						
Pt100 class B			A 01		A 01	A 01
Pt100 class A			A 02		A 02	A 02
Pt100 1/3 class B			A 03		A 03	A 03
Pt100 1/10 class B			A 04		A 04	A 04
Type K (class 1)			On request		A 05	
Type K (class 2)	A 06		On request	A 06	A 06	
Type J (class 1)			On request		On request	
Type J (class 2)			On request		On request	
NTC 5 kOhm			A 09		A 09	A 09
NTC 10 kOhm			A 10		A 10	A 10
Probe shaft Ø:						
Ø 4.0 mm						On request
Ø 5.0 mm						On request
Ø 6.0 mm (Pt100 only)					B 09	B 09
Probe shaft length						
40 mm						C 02
200 mm					C 08	
Please indicate other probe shaft lengths in mm					C 99	
Connecting line for Pt100 and NTC						
Insulated PVC, Ø 4.5 mm, 4 x 0.14 mm ²			D 01		D 01	
Insulated PVC, shielded, Ø 5 mm, 4 x 0.14 mm ²			D 02		D 02	
Insulated silicone, Ø 4.5 mm, 4 x 0.25 mm ²	D 03		D 03		D 03	
Insulated FEP, Ø 4 mm, 4 x 0.2 mm ² , shielded			D 04		D 04	
Insulated glass fibre, external wire braiding, Ø 4.5 mm, 4 x 0.25 mm ²			D 05		D 05	
Insulated PFA, Ø 4 mm, 4 x 0.25 mm ²			D 06		D 06	
Connecting line for thermocouple						
Insulated PVC, Ø 4 mm, 2 x 0.22 mm ²	D 11	On request	D 11	D 11		
Insulated PVC, shielded, Ø 5 mm, 2 x 0.25 mm ²	D 12	On request	D 12	D 12		
Insulated silicone, Ø 4 mm, 2 x 0.25 mm ² , shielded	D 13	On request	D 13	D 13		
Insulated FEP, Ø 4 mm, 2 x 0.22 mm ²	D 14	On request	D 14	D 14		
Insulated glass fibre, external wire braiding, Ø 3.6 mm, 2 x 0.22 mm ²	D 15	On request	D 15	D 15		
Please indicate length of line (standard = 2 m)	E__m	E__m	E__m	E__m		
Miscellaneous (please select 1):						
Outdoor version		F 50				
Indoor version		F 51				
Connection plug						
Open wire ends	G 00	G 00	G 00	G 00		
Miniature TC plug	G 03	On request	G 03	G 03		
Miniature TC coupling	G 04	On request	G 04	G 04		
TC plug	On request	On request	On request	On request		
TC coupling	On request	On request	On request	On request		

Sample order: Order code 6000.0000 /Type 23/ A 02 / B 09 / C 99 / 250 / D 03 / E 12.5 / G 08
 Air temperature probe type 23, Pt100 probe (class A), probe shaft Ø 6 mm, probe shaft length 250 mm, 12.5 m silicone line, with DIN round connector

Selecting the right type of standard probe

Testo Sensor offers a wide range of standard temperature probes. Use the characteristics listed below to choose the one that is suitable for your process media:



in air




in gases




in liquids



on surfaces





Type 04
Process temperature probe, fixed line connection, very small probe shaft diameter possible.




Type 09
Sheathed thermocouple probe, with TC connector for extremely rapid temperature recording. Probe material Inconel


aggressive media




Type 02
Cable probe, probe shaft diameter 3 mm, connected directly to the signal line.



Type 15
Screw-on surface TC probe (metal ring) thermocouple Type K




Type 11
Robust process temperature probe. Connected via plug-in connection (connector Tmax 80 °C/176 °F)




Type 10
Robust process temperature probe with precision coupling (Tmax. 200 °C/392 °F).

aggressive media




Type 03
Cable probe, probe shaft diameter 6 mm, connected directly to the signal line.



Type 17
Rapid-response surface probe (cross-band with probe shaft), thermocouple type K, also for rough surfaces



Type 20
Ambient temperature probe, plastic housing (also available with integrated transmitter)




Type 08
Immersion probe for extremely aggressive media, probe shaft and line insulation PFA Tmax. 260°C/500 °F, IP 67


aggressive media




Type 04
Cable probe. Fixed line connection, very small probe shaft diameter




Type 18
Robust surface probe (cross-band), with thread M12x1, thermocouple Type K, also for rough surfaces




Type 23
Air duct temperature probe



Type 14
Screwed probe (thread at front) for hard-to-reach measuring points. Pressure-tight up to 500 bar (7252 psi)



Type 06
Immersion probe with connecting head, not for use as transmitter (connection clamps to loop through signal)



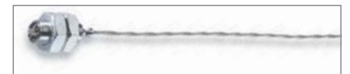
Type 19
Magnetic surface probe (cross-band) with PTFE handle, thermocouple Type K, also for rough surfaces




Type 24
Cold store and storage room temperature probe, with terminals in IP65 housing



Type 12
Immersion probe with screw thread M8x1, metal precision plug-in coupling (Tmax. 200°C/392 °F), pressure-tight to 500 bar.



Type 21
Rapid-response surface probe (cross-band) flush front thread M 14x1.5 with lock nuts, thermocouple Type K, also for rough surfaces



Type 13
Robust immersion probe with thread M8x1, plug-in connection secured by means of thread, connecting line (Tmax. 80 °C/176 °F), pressure-tight to 500 bar.