

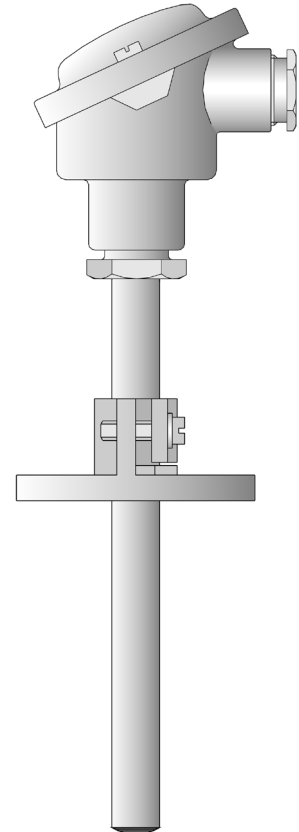
Push-in resistance thermometers with terminal head Form B

- for temperatures from -50 to +600°C
- with replaceable measuring insert
- as single or twin resistance thermometer
- terminal head Form B, BUZ, BUZH, BBK
- available with transmitter

Push-in resistance thermometers are preferred for measuring temperatures in liquids and gases. Applications include HVAC and refrigeration, heating installations, ovens, furnaces and plant engineering, as well as process technology.

The terminal head is suitable for ambient temperatures up to +100°C. Terminal heads Form BUZ, BUZH and BKK are available in addition to the standard Form B.

The measuring insert is normally fitted with a Pt100 temperature sensor to EN 60 751, Class B in 2-wire circuit. Versions with Pt500 or Pt1000 are also available. There is a choice of 3-wire and 4-wire circuit connections. A transmitter can optionally be integrated into the terminal head.



Technical data

Terminal head

Form B DIN 43 729, aluminium die-casting, Pg16, IP54, ambient temperature -20 to +100°C

Form BUZ, aluminium die-casting, Pg16, IP65, ambient temperature -20 to +100°C

Form BUZH, aluminium die-casting, Pg16, IP65, ambient temperature -20 to +100°C

Form BBK, plastic, Pg16, IP54, ambient temperature -20 to +130°C

Caution: reduced ambient temperature when using transmitters (see Data Sheets 95.6045/95.6550)

Process connection

plate flange 9mm and 11mm dia., galvanized steel

stop flange 15mm dia., DIN 43 734, cast iron

screwed pipe joint 15mm dia., stainless steel

Protection tube

stainless steel, 1.4571, 9mm, 11mm and 15mm dia.

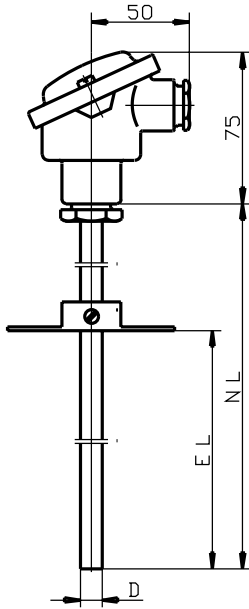
Measuring insert

replaceable, Pt100 temperature sensor EN 60 751, Cl. B, 2-wire circuit

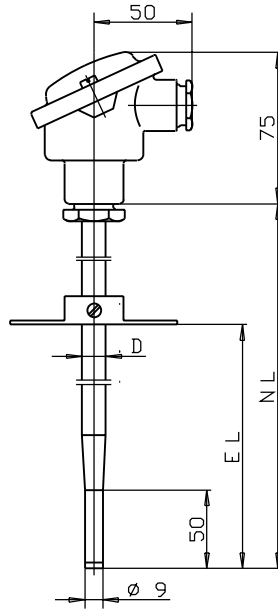
Transmitter

analog transmitter Type 956045, see Data Sheet 95.6045

programmable transmitter Type 956550, see Data Sheet 95.6550

Dimensions

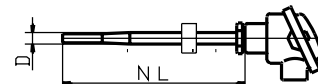
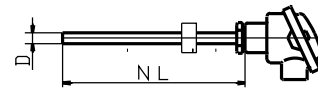
Type 902102/10



Type 902102/11

Order details: Push-in resistance thermometers with terminal head Form B

		(1) Basic version	
		902102/10	Push-in resistance thermometer with continuous protection tube
		902102/11	Push-in resistance thermometer with stepped protection tube
		(2) Operating temperature in °C	
x	x	150	-200 to +600°C
x	x	402	-50 to +400°C (standard)
x	x	415	-50 to +600°C
		(3) Measuring insert	
x	x	1001	1 x Pt100 in 3-wire circuit
x	x	1003	1 x Pt100 in 2-wire circuit
x	x	1011	1 x Pt100 in 4-wire circuit
x	x	2001	2 x Pt100 in 3-wire circuit
x	x	2003	2 x Pt100 in 2-wire circuit
		(4) Tolerance class to EN 60 751	
x	x	1	Class B (standard)
x	x	2	Class A
		(5) Protection tube diameter D in mm	
x		9	9mm
x		11	11mm
x	x	12	12mm stepped down to 9mm
x		15	15mm
		(6) Nominal length NL in mm (100 ≤ NL ≤ 1000, NL ≤ 700 for Type 902102/11)	
x	x	180	180mm, fitting length (EL) 100 - 140mm
x	x	270	270mm, fitting length (EL) 100 - 230mm
x	x	290	290mm, fitting length (EL) 100 - 250mm
x	x	350	350mm, fitting length (EL) 100 - 310mm
x	x	410	410mm, fitting length (EL) 100 - 370mm
x	x	420	420mm, fitting length (EL) 100 - 400mm
x	x	500	500mm, fitting length (EL) 100 - 460mm
x	x	710	710mm, fitting length (EL) 100 - 670mm
x	x	1000	1000mm, fitting length (EL) 100 - 960mm
x	x	...	please specify in plain text (50mm steps)
		(7) Process connection	
x	x	000	no process connection
x	x	254	screwed pipe joint 1/2" (only for 12mm and 15mm dia.)
x		663	plate flange for 9mm dia.
x		665	plate flange for 11mm dia.
x		668	stop flange 15mm dia., DIN 43 734
		(8) Extra codes	
x	x	000	no extra code
x	x	320	terminal head Form BUZ
x	x	321	terminal head Form BUZH
x	x	322	terminal head Form BBK
x	x	330	1 x analog transmitter Type 956045 (please specify range in plain text)
x	x	331	1 x programmable transmitter Type 956550 (please specify range in plain text)
x	x	334	2 x analog transmitter Type 956045 (please specify range in plain text)
x	x	335	2 x programmable transmitter Type 956550 (please specify range in plain text)



Order code (1) - (2) - (3) - (4) - (5) - (6) - (7) / (8) ,...
Order example 902102/10 - 402 - 1001 - 1 - 9 - 410 - 663 / 000¹

1. List extra codes in sequence, separated by commas.

Note: Analog transmitter, see Data Sheet 95.6045

Programmable transmitter, see Data Sheet 95.6550

Stock versions:

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Sales No.
902102/10	150	1003	1	15	500	668	000	90/00055514
902102/10	402	1003	1	11	180	665	000	90/00055681
902102/10	402	1003	1	11	270	665	000	90/00055682