

Resistance thermometer for screwing in with plug connection according to DIN 43650



Description

Resistance thermometers are used as universal thermometers preferably in processes with liquid- and gas medias under low pressure.

An electrical connection according to DIN 43 650 will be used for faster interchange. An extension tube is built in when the process temperature is higher than 150°C.

The listed stems can be used for pressure up to 36 bars, depending on the process conditions. Different materials or coatings are available for mechanical or chemical protection. Beneath the extension tube is a fixed screw G ½ A, G3/4 A or G 1 A for connection is available.

A standard sensor PT 100/2-wire, class B type according to DIN IEC 751 is built in. On request 3- and 4-wire or double elements with 2-wire connection can be used.

Features

- Universal temperature probe
- special versions on request
- interchangeable insert
- electrical connection acc. to DIN 43650

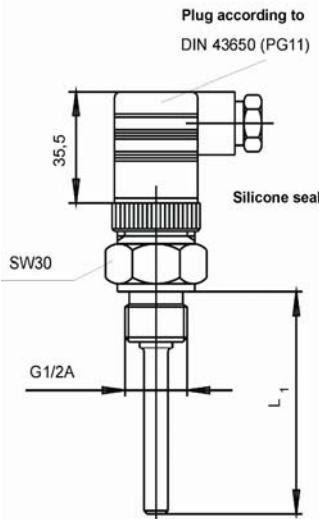
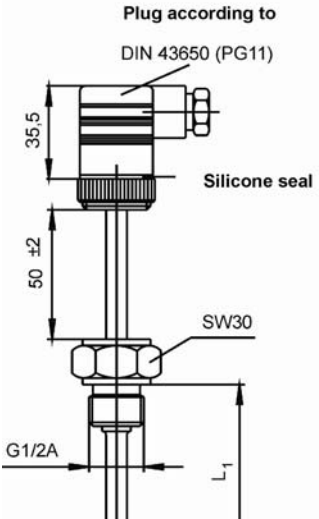
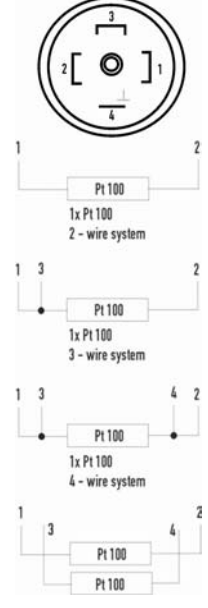
Measuring range

- 50 ... 150°C
- 200 ... 400°C (with extension 50 mm)
- 200 ... 600°C (with extension 50 mm)

Applications

Machine building
Air conditioning
Tanks and pipe construction
stock-temperature-controlling
Apparatus, heating- and furnace engineering,
Engine surveillance

Technical Details

Types	8010	8020	Options
Design			<p>Terminal plan</p> 
Description	interchangeable insert		
Symbol	Measuring range -50 to $+150$ °C Without extension	Measuring range -200 to $+400$ °C With extension Measuring range -200 to $+600$ °C With extension	
Process connection	M6, M10, M 12, G $\frac{1}{2}$ A, G $\frac{3}{4}$ A, G 1 A		other process connections on request, e.g. conical, welding or with flange
Stem Diameter	\varnothing 3 mm (no 1xPT100/4-wire or 2xPT100) \varnothing 6 mm \varnothing 8 mm	\varnothing 3 mm (not 1xPT100/4-wire or 2xPT100) \varnothing 6 mm \varnothing 8 mm	Diameter 10 mm and 12 mm
Stem length L_1	$L_1 = 25$ mm (ex stock) $L_1 = 50$ mm (ex stock) $L_1 = 75$ mm (ex stock) $L_1 = 100$ mm (ex stock) $L_1 = 160$ mm (ex stock) $L_1 = 250$ mm (ex stock)	$L_1 = 25$ mm $L_1 = 50$ mm $L_1 = 75$ mm $L_1 = 100$ mm $L_1 = 160$ mm $L_1 = 250$ mm	
Material	stainless steel 1.4571		1.4541
Electr. connection	cable junction box acc. to DIN 43650 with PG-11-screw connection waterproof IP 65 acc. to DIN40 050		
Sensor	1 x PT 100/2-wire Standard 1 x PT 100/3-wire 1 x PT 100/4-wire 2 x PT 100/2-wire acc. to EN 60751, class B ($t = \pm 0,3 + 0,005 \times t$) t = Temperature in °C, without operational sign		class A ($t = \pm 0,15 + 0,002 \times t$)

Modifications reserved!