Reference sensor

for In-Process calibration

Type series GA3110

Features

- Measuring resistor according to DIN EN 60751
- Temperature range 0...250 °C
- Accuracy according to EN 60751, class A (1/3 B)
- Connection type in 4-wire technology
- Measuring sensor Ø 1,6 mm

Options

- Temperature range 0...400 °C
- Different measuring sensor lengths upon request
- Electrical connection with plug upon request
- Calibration certificate per DIN EN 10204-3.1
- DKD Calibration certificate
- As per UKCA regulations

Application

The reference sensor is used for the In-Process calibration of resistance thermometers. This requires a special measuring insert with test pipe (see data sheet DB_T4-025-45). This makes it possible to calibrate the installed resistance thermometer without disassembling the measuring insert.

Application area

- Pharmaceutical industry
- Food industry
- Chemical and petrochemical industry
- Plant and mechanical engineering

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DB_T4-025-46_en_11.01 2024-11
Page 1/4

Technical data

Constructional design

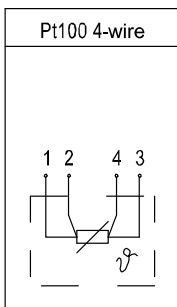|	
Design:	Resistance thermometer with protective tube
	Material protective tube: stainless steel, mat.-no. 1.4301 (304)
	Connection cable 1 m, 4 x 0,22 mm, 40 mm free wire ends
	Option:
	With connection plug, upon request
	Lenght of sensor see order code
Measuring resistor:	Pt100 per EN 60751 Nominal value of Pt100 Sensor: 100 Ohm at 0 °C, class A
	class 1/3 B for range 0...150 °C, selected and aged

Temperature ranges

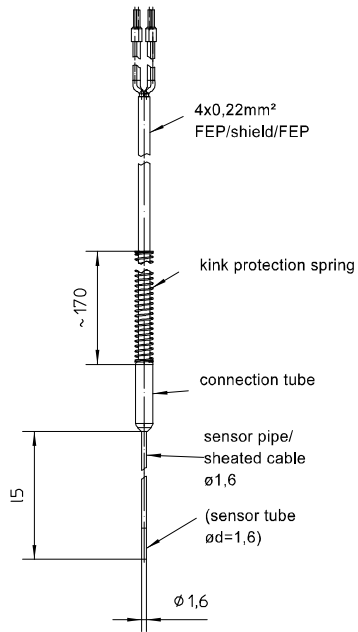Standard: 0...250 °C

Measuring insert

The length of the measuring insert is to be selected so that the measuring insert stands on the thermowell bottom. This ensures good heat transfer. We recommend the use of thermolube which optimises the heat transfer between the test tube and the resistance thermometer.

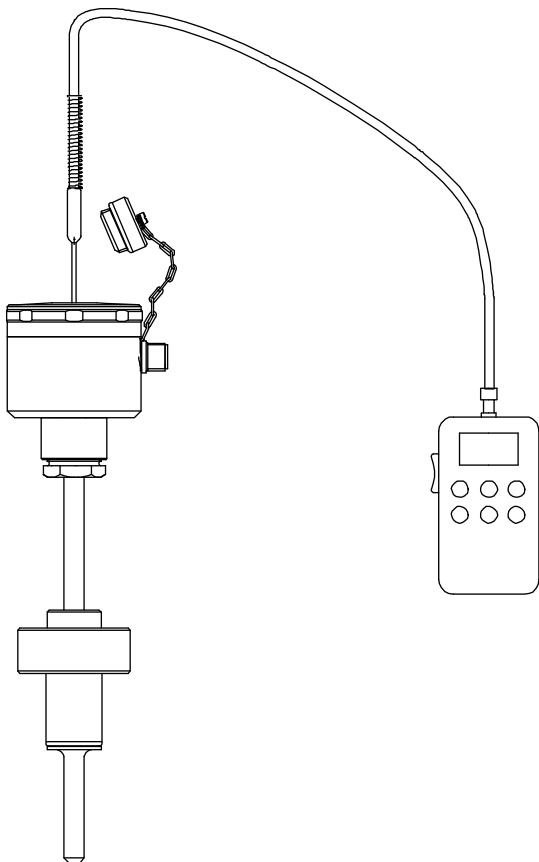The measuring insert is manufactured according to customer specifications. Possible lengths: 100…2000

Connection diagram

Pt100 4-wire

Dimensions

4x0,22mm²
FEP/shield/FEP

~170

kink protection spring

connection tube

sensor pipe/
sheated cable
ø1,6

I5

(sensor tube
ød=1,6)

Ø 1,6

Reference sensor during test condition

Order details

Reference sensor for In-Process calibration		
GA3110	Reference sensor for In-Process calibration	
B1		200 mm
B2		300 mm
B3	length l5 of measuring insert	400 mm
B4		500 mm
B5		600 mm
B9		varying
T80	electrical connection	connection cable 1m, 4 x 0,22 mm², 40 mm free wire ends

Aditional features (to be indicated if required)	
W2660	as per UKCA regulations

Order code (example): GA3110 - B4 - T80