

PT-05

Resistance Thermometer in wall-mounted Housing

- **Room temperature measurement**
- **Wall-mounting**
- **Class A or Class B**
- **Optionally with analogue output**

Description:

A Pt100 sensing resistor belongs to accuracy class A or B and is situated in a stainless steel tube; it changes its ohmic resistance according to the room temperature present outside the measuring tube. This resistance value is tapped either unaltered at the connecting terminals inside the wall-mounted housing of the PT-05 or, first, converted into a 4 to 20 mA output signal and then made available in 2-wire system.

Range of application:

The PT-05 resistance thermometer measures room temperatures by simple method and is, therefore, used in building and air-conditioning technologies. Wherever room temperature plays an important role in regulating processes, it must be tapped accurately and output electrically. In this respect, PT-05 offers a cost-effective and yet robust solution.

Technical specifications:

Housing:	65 x 58 x 35 mm (H x W x D)
Feeler length:	56 mm stainless steel
Feeler diameter:	6 mm
Temperature range:	-50°C to +70°C -40°C to +70°C with transmitter
Accuracy of measurement:	Class A or Class B as per DIN EN 60751 (optionally 1/5 DIN Cl.B)
Output:	1 x Pt100 3-wire or 2 x Pt100 3-wire or 4 to 20 mA 2-wire
Options:	Pt1000 or Ni100 instead of Pt100 on request

Electrical specifications:

Protection class:	IP65 as per DIN 40050 / IEC 60529
Cable gland:	PG 9 (PG 11)
Power output:	4 to 20 mA, 2-wire technology
max. Load:	Us - 6.5 V / 21.6 mA
Supply voltage:	8.5 to 30 VDC
Reaction on feeler break:	current exceeds 21.6 mA
Reaction on short-circuit:	current falls below 3.5 mA

Ordering codes:

Ordering number: PT-05. 1B. 1. 0-70. 0

**Resistance thermometer
in wall-mounted housing**

Sensing resistor:

1B = 1 x Pt100, Class B, 3-wire
1A = 1 x Pt100, Class A, 3-wire
2B = 2 x Pt100, Class B, 3-wire
2A = 2 x Pt100, Class A, 3-wire

Transmitter:

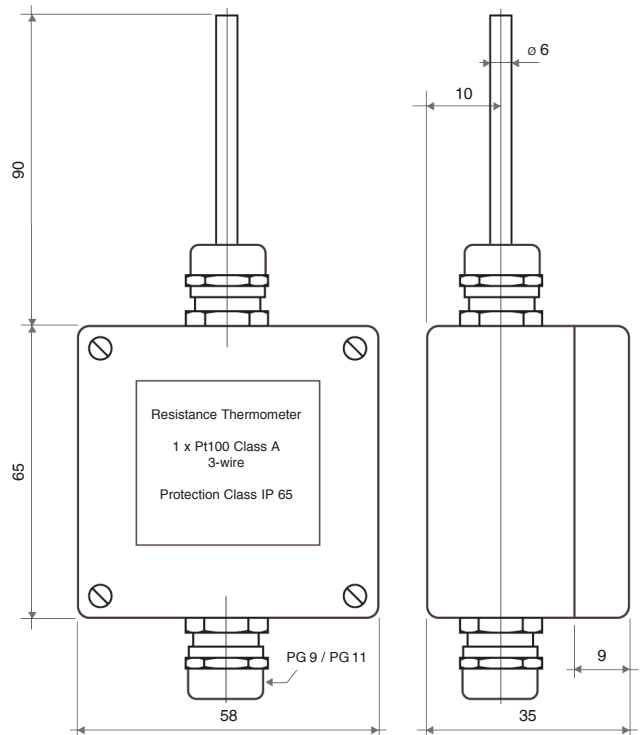
0 = none
1 = standard transmitter 4 to 20 mA, 2-wire, fixed setting
2 = standard transmitter 4 to 20 mA, 2-wire, programmable
through serial interface

Temperature range of power output:

0 = no power output
□□□ - □□□°C Assignment of power output to temperature range
in detailed text

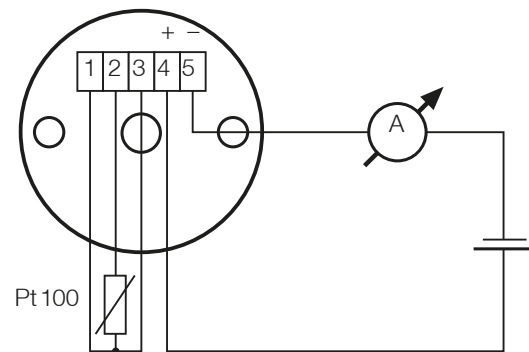
Special features:

0 = none
1 = Please specify in detailed text



Electrical connection:

PT-05.x.1



PT-05.x.2

