



# PT-05N

## Resistance Thermometer in wall-mounted Housing



## Features

/ Room temperature measurement

/ Wall-mounting

/ Class A or Class B

/ Optionally with analogue output

## Description:

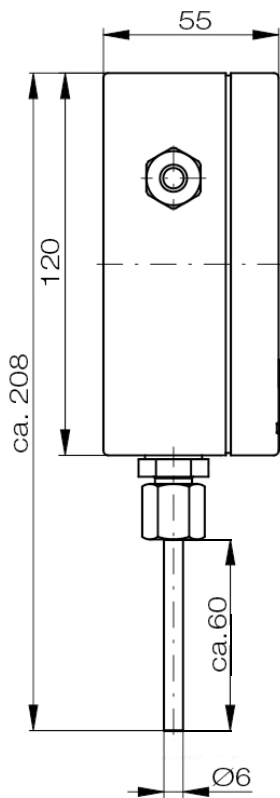
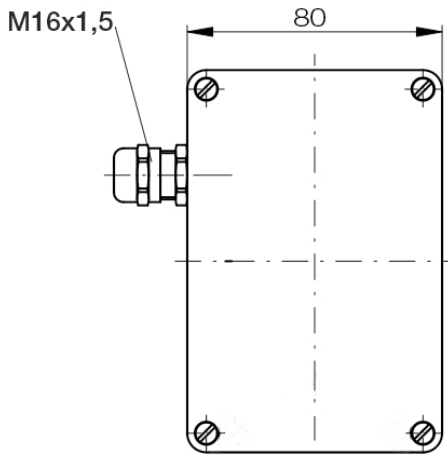
A Pt100 sensing resistor of accuracy class A or B is situated in a stainless steel tube; it changes its ohmic resistance according to the room temperature present outside the measuring tube. This resistance value is tapped either unaltered at the connecting terminals inside the wall-mounted housing of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

## Application:

The PT-05 resistance thermometer is used for simple measuring of room temperatures 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.



## Dimensions in mm:



## Technical Specifications:

<b>Housing /</b>	120 x 80 x 55 mm (H x W x D)
<b>Sensor length /</b>	60 mm stainless steel (other lengths available on request)
<b>Sensor diameter /</b>	6 mm
<b>Temperature range /</b>	-50...+70°C
<b>Accuracy of measurement /</b>	Class A as per DIN EN 60751 ± (0.15°C + 0.002°C x  t ) Class B as per DIN EN 60751 ± (0.3°C + 0.005°C x  t )
<b>Output /</b>	MU-410 4...20 mA
<b>Measuring resistance /</b>	Pt100 as per DIN EN 60751 Load capacity: 0.3...1.0 mA
<b>Options /</b>	PT1000 & Ni100

## Electrical Spec.(Transmitter):

<b>Protection class /</b>	IP68
<b>Cable gland /</b>	M16 x 1.5
<b>Power output /</b>	4...20 mA, 2-wire technology
<b>max. Load /</b>	$R_b \leq (U_b - 12V) 20 \text{ mA}$
<b>Supply voltage /</b>	12...30 VDC

## Ordering Codes:

<b>Order number</b>	<b>PT-05N.</b>	<b>1B.</b>	<b>1.</b>	<b>0.</b>	<b>0</b>
<b>PT-05N Resistance thermometer in wall-mounted housing</b>					
<b>Sensing resistor /</b>	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				
<b>Transmitter /</b>	0 = none 1 = standard transmitter 4...20 mA, 2-wire, factory configured				
<b>Temperature range of power output /</b>	0 = no power output □□□ - □□□°C Assignment of power output to temp. range in detailed text				
<b>Special features /</b>	0 = none 1 = please specify in detailed text				