

# Temperature Sensors

## Types 5204 to 5256



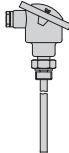
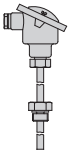
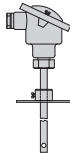



with Pt 100 resistors

### Application

Sensors for measuring temperatures in heating, ventilation, and air-conditioning systems.

Versions with Pt 100 resistors. Basic values according to Class B of DIN EN 60751.

### Temperature sensors with Pt 100 resistors

Screw-in sensor	•	•	•	•	•	•	•	•	•	•					
Duct sensor											•	•			
Outdoor sensor													•	•	
Room sensor															•
Temperature measuring range <sup>1)</sup>															
-35 to 200 °C												•	•		
-20 to 50 °C														•	•
-20 to 150 °C	•	•	•	•											
-60 to 400 °C					•	•	•	•	•	•					
Number of Pt 100 resistors	1	1	1	1	1	1	1	2	2	2	1	2	1	2	1
Sensor length mm	80	80	160	250	160	250	400	160	250	400	60 to 300		–		–
Sensor shaft G ½ <sup>2)</sup> made of	1.4571	Brass				1.4571					Brass, Ni-pl.		–		–
Nominal pressure PN	40	16				40					–		–		–
Perm. medium temperature °C	-20 to 150				-60 to 400					-35 to 200		-20 to 50		-35 to 85	
Perm. ambient temperature °C	-20 to 70 <sup>3)</sup>				-20 to 70					-20 to 70		-35 to 85		-35 to 85	
Degree of protection IP	54				54					41		54		20	
<b>Type</b>	<b>5204</b>			<b>5205</b>				<b>5206</b>			<b>5215</b>	<b>5216</b>	<b>5225</b>	<b>5226</b>	<b>5255</b>
	<b>-21</b>	<b>-27</b>	<b>-26</b>	<b>-47</b>	<b>-46</b>	<b>-48</b>	<b>-47</b>	<b>-46</b>	<b>-48</b>						
Style															
Preferable application	Heating flow pipes, domestic hot water heaters, service water, heating plants										Supply air, mixed air, exhaust air		Exterior walls of buildings		Recreation rooms and offices

<sup>1)</sup> Depends on connected device

<sup>2)</sup> Flange connection with duct sensors instead of G ½

<sup>3)</sup> Type 5204-21 made of 1.4571 with silicone connecting cable: -40 to 100 °C

**Note**

The temperature sensors can be connected in two-wire or three-wire circuits. The connection and the line calibration need to be carried out according to the requirements of the connected device.

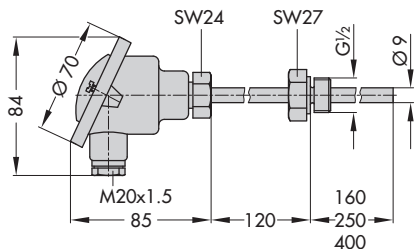
Route connecting lines between the temperature sensor and controller separately from the mains power lines.

**Dimensions in mm and weights**

**Ordering text**

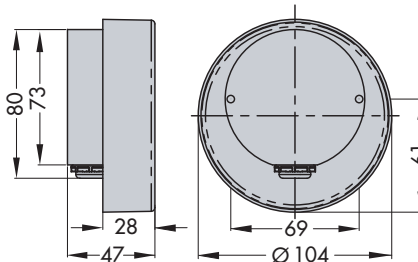
Temperature sensor with Pt 100 resistor Type ...

Type 5205/5206 Screw-in Sensor



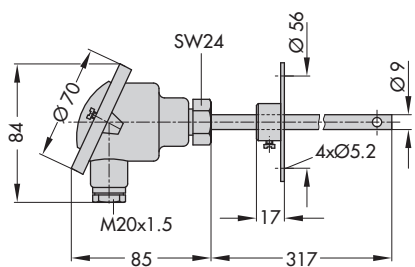
Weight: Approx. 0.4 kg for 160 mm sensor length  
 Approx. 0.5 kg for 250 mm sensor length  
 Approx. 0.6 kg for 400 mm sensor length

Type 5225/5226 Outdoor Sensor



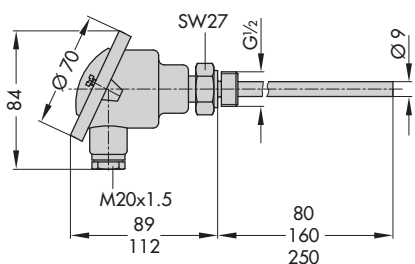
Weight: Approx. 0.4 kg

Type 5215/5216 Duct Sensor



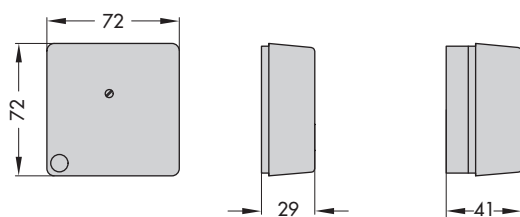
Weight: Approx. 0.6 kg

Type 5204 Screw-in Sensor



Weight: Approx. 0.4 kg for 80 and 160 mm sensor length  
 Approx. 0.5 kg for 250 mm sensor length

Type 5255/5256 Room Sensor



Attachment Attached over housing Attached over a base

Weight: Approx. 0.2 kg

Specifications subject to change without notice.

