

Temperature Sensors

Types 5204 to 5256



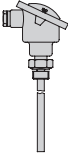
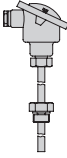
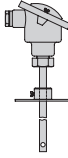



with Pt 100 resistors

Application

Sensors for measuring temperatures in HVAC 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														•
Operating temperature range ¹⁾														
–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	2	2	2	1	2	1	2	1
Sensor length mm	80	160	250	160	250	400	160	250	400	60 to 300		–	–	
Sensor shaft G ½ ²⁾ made of	1.4571	Brass		1.4571						Nickel-plated brass		–	–	
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 ³⁾			–20 to 70						–20 to 70		–35 to 85		–35 to 85
Degree of protection acc. to EN 60529 IP	54			54						41		54		20
Type	5204			5205			5206			5215	5216	5225	5226	5255
	-21	-27	-26	-47	-46	-48	-47	-46	-48					
Style														
Preferable application	Heating flow pipes, DHW heaters, service water, heating plants									Supply air, mixed air, exhaust air		Exterior walls of buildings		Recreation rooms and offices

¹⁾ Depends on connected device

²⁾ Flange connection with duct sensors instead of G ½

³⁾ 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.

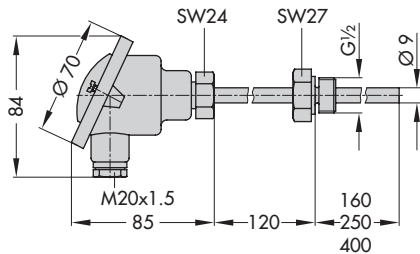
Route connecting lines between the temperature sensor and controller separately from the mains power lines.

Ordering text

Temperature sensor with Pt 100 resistor Type ...

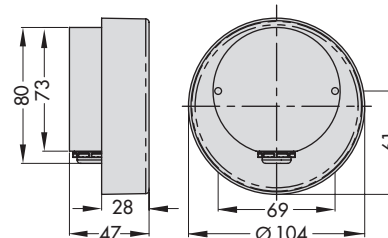
Dimensions in mm and weights

Type 5205/5206 Screw-in Sensor



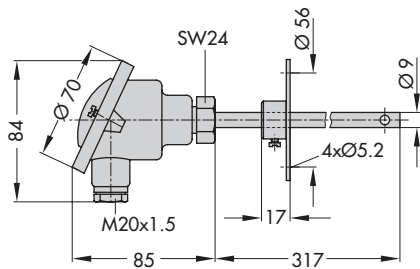
Weight: Approx. 0.4 kg with sensor length of 160 mm
Approx. 0.5 kg with sensor length of 250 mm
Approx. 0.6 kg with sensor length of 400 mm

Type 5225/5226 Outdoor Sensor



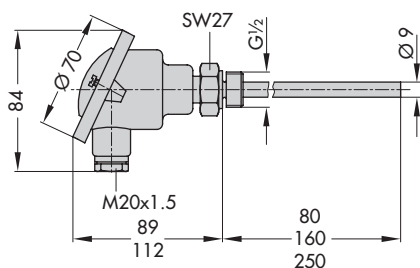
Weight: Approx. 0.4 kg

Type 5215/5216 Duct Sensor



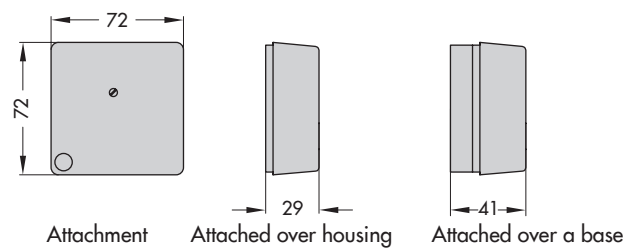
Weight: Approx. 0.6 kg

Type 5204 Screw-in Sensor



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

Type 5255/5256 Room Sensor



Weight: Approx. 0.2 kg

Specifications subject to change without notice.

