pd PRODUAL

measure - be sure.

TEAT PT 1000 IMMERSION TEMPERATURE SENSOR

TEAT PT 1000 temperature sensor is designed for measuring heating and cooling water temperatures in HVAC automation systems. The transmitter can also be used for air temperature measurements from air ventilation ducts, for example.

Temperature is detected by a Pt1000 sensor element with a nominal resistance of 1000 Ω at 0 °C.

Housing is made of heat resistant plastic. The bayonet cover and the terminal blocks are tilted to provide easy installation.

When measuring water temperature, the transmitter is always installed in a pocket. The pockets are available in various materials. See more information from the TEAT pocket data sheet.

When measuring air temperature, the transmitter can be installed to the duct with the MT4270 flange.

Sensor resistance at different temperatures:

°C	Ω	°C	Ω
120	1460.6	25	1097.3
100	1385.0	20	1077.9
90	1347.0	15	1058.5
80	1308.9	10	1039.0
75	1289.8	5	1019.5
70	1270.7	0	1000.0
65	1251.6	-5	980.4
60	1232.4	-10	960.9
55	1213.2	-15	941.2
50	1194.0	-20	921.6
45	1174.7	-25	901.9
40	1155.4	-30	882.2
35	1136.1	-40	842.7
30	1116.7	-50	803.1

Technical data

Sensor	Pt1000 EN 60751/B
Measuring range	-50...+120 °C
Accuracy	±0,3 °C (at 0 °C)
Time constant	5 s
Measuring probe	
dimensions	Ø 6 mm x 85 mm
material	AISI 316L (acid-proof steel)
Housing	
material	plastic (< 120 °C)
protection class	IP54, cable gland or measuring probe downwards
cable gland	M16
Pocket	
dimensions	Ø 8 mm x 80 mm
thread	R ½"
pressure class	PN16

Ordering guide:

Model	Product number	Description
TEAT PT 1000	1174070	immersion sensor for 80 mm pocket, 1000 Ω at 0 °C
AT 80	1170010	Ø 8 mm x 80 mm stainless steel pocket
ATM 80	1170030	Ø 8 mm x 80 mm brass pocket
ATH 80	1170020	Ø 8 mm x 80 mm acid-proof steel pocket
ATS 80	1170025	Ø 8 mm x 80 mm sea water proof steel pocket

NOTE: Other lengths also available for sensors and pockets.