

FAST RESPONSE IMMERSION SENSOR TENA PT 1000

TENA PT 1000 sensor is especially designed for hot domestic water temperature control applications. Sensor stem is made of stainless steel for prolonged life.

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

Housing is made of heat resistant plastics. The screw cover and the terminal blocks tilted to 45° make an easy installation. Sensor is installed to the water pipe by means of the R1/2" threads.

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
Mounting	R1/2" threads
Stem	4 mm x 80 mm HST steel
Housing	plastic (< 120 °C)
Prot. class	IP54, cable entry or stem down
Cable entry	M16
Range	-50...+120 °C
Accuracy	± 0.3 °C (at 0 °C)
Time constant	ca 2.5 s
Pressure rating	PN16

Ordering guide:

Model	Product number	Description
TENA PT 1000	1174050	fast immersion sensor 1000 Ω / 0 °C
TENA PT 1000-50	1174051	fast immersion sensor; 1000 Ω / 0 °C, 50 mm length
TENA PT 1000-210	1174052	fast immersion sensor; 1000 Ω / 0 °C, 210 mm length

Products fulfil the requirements of directive 2004/108/EC and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).