

FAST RESPONSE IMMERSION SENSOR TENA PT 100

TENA PT100 sensor is especially designed for hot domestic water temperature control applications.

Temperature is detected by a Pt100 sensor element with a nominal resistance of 100 Ω / 0 °C.

Sensor stem is made of stainless steel for prolonged life. 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	146.06	25	109.73
100	138.50	20	107.79
90	134.70	15	105.85
80	130.89	10	103.90
75	128.98	5	101.95
70	127.07	0	100.00
65	125.16	-5	98.04
60	123.24	-10	96.09
55	121.32	-15	94.12
50	119.40	-20	92.16
45	117.47	-25	90.19
40	115.54	-30	88.22
35	113.61	-40	84.27
30	111.67	-50	80.31



Technical data:

Sensor	Pt100 EN 60751/B
Mounting	R 1/2" threads
Stem	4 mm x 80 mm HST steel
Housing	plastic (< 120 °C)
Protection class	IP54, stem or cable entry 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 100	1173050	fast immersion sensor; 100 Ω /0 °C
TENA PT 100-50	1173051	fast immersion sensor; 100 Ω / 0 °C, 50 mm length
TENA PT 100-210	1173052	fast immersion sensor; 100 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).