

FAST RESPONSE IMMERSION SENSOR TENA NTC 2.2

TENA NTC 2.2 sensor is designed for hot domestic water temperature control applications.

Temperature is detected by a NTC 2.2 sensor element with a nominal resistance of 2.2 kΩ at 25 °C.

Housing is made of heat resistant plastics. Sensor stem is made of stainless steel. The cover and the terminal blocks are tilted 45° to provide 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	90	25	2252
100	153	20	2813
90	207	15	3538
80	283	10	4482
75	334	5	5718
70	395	0	7353
65	469	-5	9533
60	560	-10	12 460
55	673	-15	16 428
50	811	-20	21 860
45	984	-25	29 398
40	1200	-30	39 908
35	1471	-40	75 953
30	1814	-50	151 470



Technical data:

Sensor	NTC 2.2, 2.2 kΩ at 25 °C
Mounting	R 1/2" thread
Stem	Ø 4 mm x 80 mm HST steel
Housing	plastic (< 120 °C)
Protection class	IP54, cable entry or stem down
Cable entry	M16
Range	-50...+120 °C
Accuracy	±0.25 °C (at 25 °C)
Time constant	approx. 2.5 s
Pressure rating	PN16

Ordering guide:

Model	Product number	Description
TENA NTC 2.2	1172050	fast immersion sensor 2.2 kΩ at 25 °C
TENA NTC 2.2-50	1172051	fast immersion sensor 2.2 kΩ at 25 °C, stem length 50 mm
TENA NTC 2.2-210	1172052	fast immersion sensor 2.2 kΩ at 25 °C, stem length 210 mm

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).