

FAST RESPONSE IMMERSION SENSOR TENA NI 1000

TENA NI 1000 sensor is designed for hot domestic water temperature control applications.

Temperature is detected by a Ni sensor element with a nominal resistance of 1 k Ω at 0 °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 resistance at different temperatures:

°C	Ω	°C	Ω
120	1760	25	1141
100	1618	20	1112
90	1549	15	1084
80	1483	10	1056
75	1450	5	1028
70	1417	0	1000
65	1385	-5	973
60	1353	-10	946
55	1322	-15	919
50	1291	-20	893
45	1260	-25	867
40	1230	-30	842
35	1200	-40	791
30	1171	-50	743



Technical data:

Sensor	Ni 1000, 1 k Ω at 0 °C
Mounting	R 1/2" thread
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	±0.4 °C (at 0 °C)
Time constant	approx. 2.5 s
Pressure rating	PN16

Ordering guide:

Model	Product number	Description
TENA NI 1000	117C050	fast immersion sensor 1 k Ω at 0 °C
TENA NI 1000-50	117C051	fast immersion sensor, 1 k Ω at 0 °C, stem length 50 mm
TENA NI 1000-210	117C052	fast immersion sensor, 1 k Ω at 0 °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).