

FAST RESPONSE IMMERSION SENSOR TENA NTC 1.8

TENA NTC 1.8 sensor is designed for hot domestic water temperature control applications.

Temperature is detected by a NTC 1.8 sensor element with a nominal resistance of 1.8 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 resistance at different temperatures:

°C	Ω	°C	Ω
120	110	25	1800
100	178	20	2177
90	230	15	2649
80	303	10	3241
75	349	5	3989
70	403	0	4940
65	468	-5	6159
60	545	-10	7730
55	638	-15	9771
50	750	-20	12 443
45	885	-25	15 969
40	1049	-30	20 659
35	1250	-40	35 480
30	1496	-50	63 229



Technical data:

Sensor	NTC 1.8, 1.8 kΩ at 25 °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	±0.3 °C (at 25 °C)
Time constant	approx. 2.5 s
Pressure rating	PN16

Ordering guide:

Model	Product number	Description
TENA NTC 1.8	117E050	fast immersion sensor 1.8 kΩ at 25 °C
TENA NTC 1.8-50	117E051	fast immersion sensor 1.8 kΩ at 25 °C, stem length 50 mm
TENA NTC 1.8-210	117E052	fast immersion sensor, 1 kΩ 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).