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).

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