

FAST RESPONSE IMMERSION SENSOR TENA NTC 10-AN

TENA NTC 10-AN sensor is designed for hot domestic water temperature control applications.

Temperature is detected by a NTC sensor element with a nominal resistance of 10 k Ω 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	483	25	10 000
100	817	20	12 268
90	1084	15	15 136
80	1458	10	18 787
75	1700	5	23 462
70	1990	0	29 490
65	2339	-5	37 316
60	2760	-10	47 549
55	3271	-15	61 030
50	3893	-20	78 930
45	4656	-25	102 890
40	5594	-30	135 233
35	6754	-40	239 831
30	8197	-50	441 667



Technical data:

Sensor	NTC 10-AN, 10 k Ω at 25 °C
Mounting	R 1/2" thread
Stem	Ø 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	±0.25 °C (at 25 °C)
Time constant	approx. 2.5 s
Pressure rating	PN16

Ordering guide:

Model	Product number	Description
TENA NTC 10-AN	117H050	fast immersion sensor 10 k Ω at 25 °C
TENA NTC 10-AN-50	117H051	fast immersion sensor 10 k Ω at 25 °C, stem length 50 mm
TENA NTC 10-AN-210	117H052	fast immersion sensor 10 k Ω 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).