

FAST RESPONSE IMMERSION SENSOR TENA NTC 10-C

TENA NTC 10-C 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	597	25	10 000
100	973	20	12 090
90	1266	15	14 690
80	1668	10	17 960
75	1924	5	22 050
70	2228	0	27 280
65	2588	-5	33 900
60	3020	-10	42 470
55	3536	-15	53 410
50	4160	-20	67 770
45	4911	-25	86 430
40	5827	-30	111 300
35	6940	-40	-
30	8313	-50	-



Technical data:

Sensor	NTC 10-C, 10 k Ω at 25 °C
Mounting	R 1/2" thread
Stem	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 10-C	117M050	fast immersion sensor 10 k Ω at 25 °C
TENA NTC 10-C-50	117M051	fast immersion sensor 10 k Ω at 25 °C, stem length 50 mm
TENA NTC 10-C-210	117M052	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).