

FAST RESPONSE IMMERSION SENSOR TENA NTC 10

TENA NTC 10 sensor is especially designed for hot domestic water temperature control applications. Sensor stem is made of stainless steel for prolonged life.

Temperature is detected by an NTC 10 sensor element with a nominal resistance of 10 k Ω at 25 °C.

Housing is made of heat resistant plastics. The screw cover and the terminal blocks tilted to 45° make an easy installation. Sensor is installed to the water pipe by means of the R1/2" threads.

Sensor resistance at different temperatures

°C	Ω	°C	Ω
120	389	25	10 000
100	679	20	12 490
90	916	15	15 710
80	1256	10	19 900
75	1480	5	25 400
70	1751	0	32 660
65	2082	-5	42 340
60	2488	-10	55 340
55	2986	-15	72 980
50	3602	-20	97 120
45	4368	-25	130 400
40	5326	-30	177 000
35	6532	-40	337 270
30	8055	-50	672 600



Technical data:

Sensor	10 k Ω NTC
Mounting	R 1/2" threads
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	± 0.2 °C (at 25 °C)
Time constant	ca 2.5 s
Pressure rating	PN16

Ordering guide:

Model	Product number	Description
TENA NTC 10	1175050	fast immersion sensor 10 k Ω / 25 °C
TENA NTC 10-50	1175051	fast immersion sensor 2.2 k Ω at 25 °C, stem length 50 mm
TENA NTC 10-210	1175052	fast immersion sensor 2.2 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).