

FAST RESPONSE IMMERSION SENSOR TENA NTC 20

TENA NTC 20 sensor is especially designed for hot domestic water temperature control applications. Sensor stem is made of stainless steel for prolonged life. Housing is made of heat resistant plastics.

Temperature is detected by an NTC 20 sensor element with a nominal resistance of 20 k Ω at 25 °C.

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	351	25	20 000
100	1114	20	25 350
90	1541	15	32 346
80	2166	10	41 567
75	2585	5	53 812
70	3099	0	70 203
65	3732	-5	92 322
60	4517	-10	122 431
55	5494	-15	163 777
50	6718	-20	221 088
45	8259	-25	301 297
40	10 211	-30	414 698
35	12 698	-40	810 861
30	15 887	-50	165 9082



Technical data:

Sensor	20 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	\pm 0.2 °C (at 25 °C)
Time constant	ca 2.5 s
Pressure rating	PN16

Ordering guide:

Model	Product number	Description
TENA NTC 20	1176050	fast immersion sensor 20 k Ω / 25 °C
TENA NTC 20-50	1176051	fast immersion sensor 20 k Ω / 25 °C, stem length 50 mm
TENA NTC 20-210	1176052	fast immersion sensor 20 k Ω / 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).