

FAST RESPONSE IMMERSION SENSOR TENA NI1000-LG

TENA NI 1000-LG sensor is designed for hot domestic water temperature control applications.

Temperature is detected by a Ni sensor element with a nominal resistance of 1 kΩ at 0 °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	1615	25	1114
100	1500	20	1091
90	1444	15	1068
80	1390	10	1045
75	1364	5	1022
70	1337	0	1000
65	1311	-5	978
60	1285	-10	956
55	1260	-15	935
50	1235	-20	914
45	1210	-25	893
40	1186	-30	872
35	1162	-40	831
30	1138	-50	791



Technical data:

sensor	Ni1000-LG
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	± 0.5 °C (at 0 °C)
time constant	ca 2.5 s
pressure rating	PN16

Ordering guide:

Model	Product number	Description
TENA NI1000-LG	1178050	fast immersion sensor 1 kΩ / 0 °C
TENA NI 1000-50	1178051	fast immersion sensor, 1 kΩ at 0 °C, stem length 50 mm
TENA NI 1000-210	1178052	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).