

INDUSTRIAL TEMPERATURE SENSOR TES NI 1000

TES NI 1000 temperature sensor is designed for automatic HVAC systems, especially for demanding conditions such as saunas, cold-rooms, freezers and stores.

Temperature is detected by a Ni element with a nominal resistance of 1 k Ω at 0 °C.

Housing is made of weather-proof aluminium, IP67 also ensuring a good mechanical protection for the sensor.

Sensor resistance at different temperatures:

°C	Ω	°C	Ω
120	1760	25	1141
100	1618	20	1112
90	1549	15	1084
80	1483	10	1056
75	1450	5	1028
70	1417	0	1000
65	1385	-5	973
60	1353	-10	946
55	1322	-15	919
50	1291	-20	893
45	1260	-25	867
40	1230	-30	842
35	1200	-40	791
30	1171	-50	743



Technical data:

sensor	Ni 1000 element, 1 k Ω at 0 °C
prot. class	IP67
housing	silium cast
cable entry	PG11
range	-50...+120 °C
accuracy	$\pm 0.4^{\circ}\text{C}$ (0 °C:ssa)
dimensions	100 x 65 x35 mm

Ordering guide:

Model	Product number	Description
TES NI 1000	117C100	industrial temperature sensor 1 k Ω at 0 °C

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).