

TEL NI 1000 FLOOR HEATING TEMPERATURE SENSOR

TEL NI 1000 temperature sensor is designed for automatic HVAC systems for measuring floor temperatures.

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

Use metal or plastic pipe installed into the floor construction for mechanical protection. Water inside the protection pipe destroys 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	1 k Ω Ni element
cable	Ø 5 mm x 3 m, LIYY 2x0,5 PVC isolated
temperature range	-30...80 °C
accuracy	±0,4 °C (at 0 °C)
sleeve	Ø 7 mm
protection class	IP54

Ordering guide:

Model	Product number	Description
TEL NI 1000	117C280	floor temperature sensor 1 k Ω / 0 °C

Products fulfil the requirements of directive 2014/30/EU and are in accordance with the standards EN61000-6-3 (Emission) and EN61000-6-2 (Immunity).