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DATA SHEET

TEL

Produal

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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 kΩ 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 kΩ Ni element
cable	∅ 5 mm x 3 m, LIYY 2x0,5 PVC isolated
temperature range	-30...80 °C
accuracy	±0,4 °C (at 0 °C)
sleeve	∅ 7 mm
protection class	IP54

Ordering guide:

Model	Product number	Description
TEL NI 1000	117C280	floor temperature sensor 1 kΩ / 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).

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