

TEM NI 1000 TEMPERATURE SENSOR FOR SOIL INSTALLATION

TEM NI 1000 temperature sensor is designed for automatic HVAC systems for measuring temperatures in traffic tramp and street constructions.

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 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 6 mm x 5 m, PUR 2x0,75
temperature range	-30...+80 °C
accuracy	±0.4 °C (at 0°C)
sleeve	Ø 9 mm

Ordering guide:

Model	Product number	Description
TEM NI 1000	117C310	soil 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).