

TEM NTC 1.8 TEMPERATURE SENSOR FOR SOIL INSTALLATION

TEM NTC 1.8 temperature sensor is designed for automatic HVAC systems for measuring temperatures in traffic tramp and street constructions.

Temperature is detected by an NTC element with a nominal resistance of 1.8 k Ω at 25 °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	110	25	1800
100	178	20	2177
90	230	15	2649
80	303	10	3241
75	349	5	3989
70	403	0	4940
65	468	-5	6159
60	545	-10	7730
55	638	-15	9771
50	750	-20	12 443
45	885	-25	15 969
40	1049	-30	20 659
35	1250	-40	35 480
30	1496	-50	63 229



Technical data:

sensor	1.8 k Ω NTC element
cable	Ø 6 mm x 5 m, PUR 2x0,75
temperature range	-30...+80 °C
accuracy	±0.3 °C (at 25°C)
sleeve	Ø 9 mm

Ordering guide:

Model	Product number	Description
TEM NTC 1.8	117E310	soil temperature sensor 1.8 k Ω at 25°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).