

## TEM NTC 2.2 TEMPERATURE SENSOR FOR SOIL INSTALLATION

TEM NTC 2.2 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 2.2 k $\Omega$  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	$\Omega$	°C	$\Omega$
120	90	25	2252
100	153	20	2813
90	207	15	3538
80	283	10	4482
75	334	5	5718
70	395	0	7353
65	469	-5	9533
60	560	-10	12 460
55	673	-15	16 428
50	811	-20	21 860
45	984	-25	29 398
40	1200	-30	39 908
35	1471	-40	75 953
30	1814	-50	151 470



### Technical data:

sensor	2.2 k $\Omega$ NTC element
cable	Ø 6 mm x 5 m, PUR 2x0,75
temperature range	-30...+80 °C
accuracy	±0.25 °C (at 25°C)
sleeve	Ø 9 mm

### Ordering guide:

Model	Product number	Description
TEM NTC 2.2	1172310	soil temperature sensor 2.2 k $\Omega$ 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).