

## TEM NTC 10-C TEMPERATURE SENSOR FOR SOIL INSTALLATION

TEM NTC 10-C 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 10 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	597	25	10 000
100	973	20	12 090
90	1266	15	14 690
80	1668	10	17 960
75	1924	5	22 050
70	2228	0	27 280
65	2588	-5	33 900
60	3020	-10	42 470
55	3536	-15	53 410
50	4160	-20	67 770
45	4911	-25	86 430
40	5827	-30	111 300
35	6940	-40	-
30	8313	-50	-



### Technical data:

sensor	10 k $\Omega$ NTC element
cable	∅ 6 mm x 5 m, PUR 2x0,75
temperature range	-30...+80 °C
accuracy	±0.25 °C (at 25°C)
sleeve	∅ 9 mm

### Ordering guide:

Model	Product number	Description
TEM NTC 10-C	117M310	soil temperature sensor 10 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).