

TEM NTC 10-AN TEMPERATURE SENSOR FOR SOIL INSTALLATION

TEM NTC 10-AN 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 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	483	25	10 000
100	817	20	12 268
90	1084	15	15 136
80	1458	10	18 787
75	1700	5	23 462
70	1990	0	29 490
65	2339	-5	37 316
60	2760	-10	47 549
55	3271	-15	61 030
50	3893	-20	78 930
45	4656	-25	102 890
40	5594	-30	135 233
35	6754	-40	239 831
30	8197	-50	441 667



Technical data:

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

Ordering guide:

Model	Product number	Description
TEM NTC 10-AN	117H310	soil temperature sensor 10 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).