

TEL NTC 10-C FLOOR HEATING TEMPERATURE SENSOR

TEL NTC 10-C temperature sensor is designed for automatic HVAC systems for measuring floor temperatures.

Temperature is detected by an NTC element with a nominal resistance of 10 kΩ at 25 °C.

Use metal or plastic pipe installed into the floor construction for mechanical protection. Water inside the protection pipe destroys the sensor.

Sensor resistance at different temperatures

°C	Ω	°C	Ω
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 kΩ NTC thermistor
cable	Ø 5 mm x 3 m, LIYY 2x0,5 PVC isolated
temperature range	-30...80 °C
accuracy	±0,25 °C (at 25 °C)
sleeve	Ø 7 mm
protection class	IP54

Ordering guide:

Model	Product number	Description
TEL NTC 10-C	117M280	floor temperature sensor 10 kΩ / 25 °C

Products fulfil the requirements of directive 2014/30/EU and are in accordance with the standards EN61000-6-3 (Emission) and EN61000-6-2 (Immunity).