

OUTDOOR TEMPERATURE SENSOR TEU NTC 1.8

TEU NTC 1.8 temperature sensor is designed for detecting outdoor temperatures in automatic HVAC systems.

Temperature is detected by a NTC 1.8 sensor element with a nominal resistance of 1.8 kΩ at 25 °C.

Housing is made of weather-proof plastic. The cover and the terminal blocks are tilted 45° to provide easy installation. Sensor is mounted on the wall by using screws.

Sensor resistance at different temperatures:

°C	Ω	°C	Ω
120	109.6	25	1800.0
100	177.6	20	2177.5
90	230.3	15	2648.7
80	302.5	10	3240.6
75	348.6	5	3988.6
70	403.1	0	4940.1
65	467.9	-5	6158.5
60	545.2	-10	7729.9
55	637.9	-15	9771.1
50	749.6	-20	12443.1
45	884.7	-25	15968.8
40	1048.9	-30	20659.5
35	1249.6	-40	35479.9
30	1495.9	-50	63229.0



Technical data

Sensor	1.8 kΩ NTC element
Measuring range	-50...+50 °C
Accuracy	±0.3 °C (at 25 °C)
Cable gland	M16
Housing	weather-proof plastic
Protection class	IP54, cable gland downwards
Mounting	with Ø 4.5 mm screws, hole distance 82 mm

Ordering guide:

Model	Product number	Description
TEU NTC 1.8	117E090	outdoor temperature sensor, 1.8 kΩ 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).