

IMMERSION TEMPERATURE SENSOR TEAT NTC 1.8

TEAT NTC 1.8 temperature sensor is made for detecting the temperature of heating and cooling water. Sensor is always installed in a pocket. The available pocket materials are stainless steel, acid-proof steel and brass.

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

Housing is made of heat resistant plastics. The cover and the terminal blocks are tilted 45° to provide easy installation.

Sensor resistance at different temperatures:

°C	Ω	°C	Ω
120	110	25	1800
100	178	20	2177
90	230	15	2649
80	303	10	3241
75	349	5	3989
70	403	0	4940
65	468	-5	6159
60	545	-10	7730
55	638	-15	9771
50	750	-20	12 443
45	885	-25	15 969
40	1049	-30	20 659
35	1250	-40	35 480
30	1496	-50	63 229



Technical data:

sensor	NTC 1.8, 1.8 kΩ at 25 °C
mounting	R 1/2" thread
housing	plastic (< 120 °C)
protection class	IP54, cable entry or stem down
cable entry	M16
range	-50...+120 °C
accuracy	±0.3 °C at 25 °C
pressure rating	PN16
time constant	5 s
materials	PBT, PC, PA, acid proof steel

Ordering guide:

Model	Product number	Description
TEAT NTC 1.8	117E070	immersion sensor for 80 mm pocket
AT 80	1170010	Ø 8 mm x 90 mm stainless steel pocket
ATM 80	1170020	Ø 8 mm x 90 mm brass pocket
ATH 80	1170030	Ø 8 mm x 90 mm acid-proof steel pocket
ATS 80	1170001	Ø 8 mm x 90 mm acid-proof steel pocket (sea water resistant)
ATH 300	1170021	Ø 8 mm x 310 mm acid-proof steel pocket

Products fulfill 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).