PRODUAL
measure - be sure.

IMMERSION TEMPERATURE SENSOR TEAT KP 10

TEAT KP 10 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 KP 10 sensor element with a nominal voltage of 2.98 V at 25 °C.

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

Sensor voltage at different temperatures:

°C	V	°C	V
120	3.93	25	2.98
100	3.73	20	2.93
90	3.63	15	2.88
80	3.53	10	2.83
75	3.48	5	2.78
70	3.43	0	2.73
65	3.38	-5	2.68
60	3.33	-10	2.63
55	3.28	-15	2.58
50	3.23	-20	2.53
45	3.18	-25	2.48
40	3.13	-30	2.43
35	3.08	-40	2.33
30	3.03	-50	2.23

Technical data:

sensor	KP 10 element, 2.98 V at 25 °C
mounting	R ½" thread
housing	Plastic (< 120 °C)
protection class	IP54, cable entry or stem down
cable entry	M16
range	-50…120 °C
accuracy	±0.5 °C at 25 °C
pressure rating	PN 16
time constant	5 s
materials	PBT, PC, PA, acid proof steel

Ordering guide:

Model	Product number	Description
TEAT KP 10	117J070	immersion sensor for 80 mm pocket
AT 80	1170010	Ø 8 mm x 90 mm stainless steel pocket
ATM 80	1170030	Ø 8 mm x 90 mm brass pocket
ATH 80	1170020	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).