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DATA SHEET

TEAT

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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).

Information is subject to change without prior notice.