

INDUSTRIAL TEMPERATURE SENSOR TES KP 10

TES KP 10 temperature sensor is designed for automatic HVAC systems, especially for demanding conditions such as saunas, cold-rooms, freezers and stores.

Temperature is detected by a KP element with a nominal voltage of 2.73 V at 0 °C.

Housing is made of weather-proof aluminium, IP67 also ensuring a good mechanical protection for the sensor.

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	LM335Z, 2.73 V at 0 °C / 10 mV/K
protection class	IP67
housing	silium cast
cable entry	PG 11
range	-50...120 °C
accuracy	±0.5 °C (at 0 °C)
dimensions	100 x 65 x35 mm

Ordering guide:

Model	Product number	Description
TES KP 10	117J100	industrial temperature sensor 2.73 V at 0 °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).