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DATA SHEET

TEK

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DUCT TEMPERATURE SENSOR TEK KP 10

TEK KP 10 temperature sensor is designed for automatic ventilating systems to detect duct temperatures.

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

Housing is made of heat-resistant plastic. The cover and the terminal blocks are tilted 45° to provide easy installation. Sensor is mounted to the duct by using an adjustable duct connection flange.

Installation depth can be adjusted approximately from 100 to 200 mm.

Sensor voltages 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
stem	∅ 8 mm x 220 mm
duct connection	flange
housing	plastic (< 120 °C)
protection class	IP54, cable entry or stem down
cable entry	M16
range	-50…+70 °C
accuracy	±0.5 °C (at 25 °C)

Ordering guide:

Model	Product number	Description
TEK KP 10	117J040	temperature sensor 2.73 V / 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).

Information is subject to change without prior notice.