

DUCT TEMPERATURE SENSOR TEK NI 1000

TEK NI 1000 temperature sensor is designed for automatic ventilating systems to detect duct temperatures.

Temperature is detected by a Ni sensor element with a nominal resistance of 1 k Ω 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 resistance at different temperatures:

°C	Ω	°C	Ω
120	1760	25	1141
100	1618	20	1112
90	1549	15	1084
80	1483	10	1056
75	1450	5	1028
70	1417	0	1000
65	1385	-5	973
60	1353	-10	946
55	1322	-15	919
50	1291	-20	893
45	1260	-25	867
40	1230	-30	842
35	1200	-40	791
30	1171	-50	743



Technical data:

sensor	Ni 1000 element, 1 k Ω at 0 °C
stem	Ø 8 mm x 220 mm
duct connection	flange
housing	plastic (< 120 °C)
protection class	IP54, cable entry or stem down
cable entry	M16
range	-20...+70 °C
accuracy	±0.4 °C (at 0 °C)

Ordering guide:

Model	Product number	Description
TEK NI 1000	117C040	temperature sensor 1 k Ω 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).

DUCT TEMPERATURE SENSOR TEK NI1000-LG

TEK NI1000-LG temperature sensor is designed for automatic ventilating systems to detect duct temperature.

Temperature is detected by a Ni1000-LG sensor element with a nominal resistance of 1000 $\Omega/0$ °C.

The screw cover and the terminal blocks tilted to 45° make an easy installation.

Housing is made of heat resistant plastic.

Sensor is mounted to the duct by means of an adjustable duct connection flange for optimal temperature detection.

Installation depth can be adjusted between ca 100...220 mm.



Technical data:

Sensor	Ni1000-LG
Stem	Ø 8 mm x 220 mm
Duct connection	flange
Housing	plastic (< 120 °C)
Prot. class	IP 54, cable entry or stem down
Cable entry	M16
Range	-50...70 °C
Accuracy	± 0.5 °C (at 0°C)

Temperature/Resistance:

°C	Ni1000LG/ Ω	°C	Ni1000LG/ Ω
120	1616,4	25	1114,0
100	1500,0	20	1090,7
90	1444,4	15	1067,6
80	1390,1	10	1044,8
75	1363,5	5	1022,3
70	1337,1	0	1000,0
65	1311,1	-5	978,0
60	1285,4	-10	956,2
55	1260,1	-15	934,7
50	1235,0	-20	913,5
45	1210,2	-25	892,5
40	1185,7	-30	871,7
35	1161,5	-40	830,8
30	1137,6	-50	790,9

Ordering guide:

Model	Product number	Description
TEK NI 1000-LG	1178040	duct temperature sensor 1000 ohm / 0 °C

Products fulfil the requirements of directive 2004/108/EY and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).

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DUCT TEMPERATURE SENSOR TEK NTC 20

TEK NTC 20 temperature sensor is designed for automatic ventilating systems to detect duct temperature.

Temperature is detected by an NTC thermistor with a nominal resistance of 20 k Ω /25 °C.

The screw cover and the terminal blocks tilted to 45° make an easy installation.

Housing is made of heat resistant plastic.

Sensor is mounted to the duct by means of an adjustable duct connection flange for optimal temperature detection.

Installation depth can be adjusted between ca 100...220 mm.



Technical data:

Sensor	20 k Ω NTC thermistor
Stem	\varnothing 8 mm x 220 mm
Duct connection	flange
Housing	plastic (< 120 °C)
Prot. class	IP 54, cable entry or stem down
Cable entry	M16
Range	-50...70 °C
Accuracy	\pm 0.2 °C (at 25 °C)

Temperature/Resistance:

°C	NTC 20 / Ω	°C	NTC 20 / Ω
120	609	25	20000
100	1114	20	25350
90	1541	15	32346
80	2166	10	41567
75	2585	5	53812
70	3099	0	70203
65	3732	-5	92322
60	4517	-10	122431
55	5494	-15	163777
50	6718	-20	221088
45	8259	-25	301297
40	10211	-30	414698
35	12698	-40	810861
30	15887	-50	1659082

Ordering guide:

Model	Product number	Description
TEK NTC 20	1176040	duct temperature sensor 20 kohm / 25 °C

Products fulfil the requirements of directive 2004/108/EY and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).

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DUCT TEMPERATURE SENSOR TEK NTC 10

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

Temperature is detected by an NTC thermistor with a nominal resistance of 10 k Ω /25 °C.

The screw cover and the terminal blocks tilted to 45° make an easy installation.

Housing is made of heat resistant plastic.

Sensor is mounted to the duct by means of an adjustable duct connection flange for optimal temperature detection.

Installation depth can be adjusted between ca 100...220 mm.



Technical data:

Sensor	10 k Ω NTC -thermistor
Stem	\varnothing 8 mm x 220 mm
Duct connection	flange
Housing	plastic (< 120 °C)
Prot. class	IP 54, cable entry or stem down
Cable entry	M16
Range	-50...70 °C
Accuracy	\pm 0.2 °C (at 25 °C)

Temperature/Resistance:

°C	NTC 10 / Ω	°C	NTC 10 / Ω
120	389.0	25	10000.0
100	680.0	20	12490.0
90	917.7	15	15710.0
80	1258.0	10	19900.0
75	1480.0	5	25400.0
70	1752.0	0	32650.0
65	2082.0	-5	42340.0
60	2488.0	-10	55330.0
55	2968.0	-15	72980.0
50	3603.0	-20	97070.0
45	4368.0	-25	130400.0
40	5327.0	-30	177000.0
35	6532.0	-40	336500.0
30	8057.0	-50	670100.0

Ordering guide:

Model	Product number	Description
TEK NTC 10	1175040	duct temperature sensor 10 kohm / 25°C

Products fulfill the requirements of directive 2004/108/EY and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).

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DUCT TEMPERATURE SENSOR TEK NTC 2.2

TEK NTC 2.2 temperature sensor is designed for automatic ventilating systems to detect duct temperatures.

Temperature is detected by a NTC sensor element with a nominal resistance of 2,252 k Ω /25 °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 resistance at different temperatures:

°C	Ω	°C	Ω
120	90	25	2252
100	153	20	2813
90	207	15	3538
80	283	10	4482
75	334	5	5718
70	395	0	7353
65	469	-5	9533
60	560	-10	12460
55	673	-15	16428
50	811	-20	21860
45	984	-25	29398
40	1200	-30	39908
35	1471	-40	75953
30	1814	-50	151470



Technical data:

sensor	NTC 2.2, 2,252 k Ω at 25 °C
stem	Ø 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	±0,25 °C (at 25 °C)
materials	PBT, PC, PA, stainless steel

Ordering guide:

Model	Product number	Description
TEK NTC 2.2	1172040	temperature sensor 2,252 k Ω / 25 °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).

DUCT TEMPERATURE SENSOR TEK NTC 1.8

TEK NTC 1.8 temperature sensor is designed for automatic ventilating systems to detect duct temperatures.

Temperature is detected by a NTC sensor element with a nominal resistance of 1.8 k Ω at 25 °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 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 k Ω at 25 °C
stem	Ø 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	±0.3 °C (at 25 °C)
materials	PBT, PC, PA, stainless steel

Ordering guide:

Model	Product number	Description
TEK NTC 1.8	117E040	temperature sensor 1.8 k Ω / 25 °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).

DUCT TEMPERATURE SENSOR TEK PT 1000

TEK PT 1000 temperature sensor is designed for automatic ventilating systems to detect duct temperature.

Temperature is detected by a Pt1000 sensor element with a nominal resistance of 1000 Ω /0 °C.

The screw cover and the terminal blocks tilted to 45° make an easy installation.

Housing is made of heat resistant plastic.

Sensor is mounted to the duct by means of an adjustable duct connection flange for optimal temperature detection.

Installation depth can be adjusted between ca 100...220 mm.



Technical data:

Sensor	Pt1000 EN 60751/B
Stem	Ø 8 mm x 220 mm
Duct connection	flange
Housing	plastic (< 120 °C)
Prot. class	IP 54, cable entry or stem down
Cable entry	M16
Range	-50...70 °C
Accuracy	± 0.3 °C (at 0 °C)

Temperature/Resistance:

°C	PT 1000 Ω	°C	PT 1000 Ω
120	1460.6	25	1097.3
100	1385.0	20	1077.9
90	1347.0	15	1058.5
80	1308.9	10	1039.0
75	1289.8	5	1019.5
70	1270.7	0	1000.0
65	1251.6	-5	980.4
60	1232.4	-10	960.9
55	1213.2	-15	941.2
50	1194.0	-20	921.6
45	1174.7	-25	901.9
40	1155.4	-30	882.2
35	1136.1	-40	842.7
30	1116.7	-50	803.1

Ordering guide:

Model	Product number	Description
TEK PT 1000	1174040	duct temperature sensor 1000 ohm / 0 °C

Products fulfil the requirements of directive 2004/108/EY and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).

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DUCT TEMPERATURE SENSOR TEK PT 100

TEK PT 100 temperature sensor is designed for automatic ventilating systems to detect duct temperature.

Temperature is detected by a Pt100 sensor element with a nominal resistance of 100 $\Omega/0$ °C.

The screw cover and the terminal blocks tilted to 45° make an easy installation.

Housing is made of heat resistant plastic.

Sensor is mounted to the duct by means of an adjustable duct connection flange for optimal temperature detection. Installation depth can be adjusted between ca 100...220 mm.



Technical data:

Sensor	Pt 100 EN 60751/B
Stem	Ø 8 mm x 220 mm
Duct connection	flange, hole distance 50mm
Housing	plastic (< 120 °C)
Protection class	IP 54, cable entry or stem down
Cable entry	M 16
Range	-50...70 °C
Accuracy	± 0.3 °C (at 0 °C)

Temperature / resistance -table:

°C	PT 100 / Ω	°C	PT 100 / Ω
120	146.06	25	109.73
100	138.50	20	107.79
90	134.70	15	105.85
80	130.89	10	103.90
75	128.98	5	101.95
70	127.07	0	100.00
65	125.16	-5	98.04
60	123.24	-10	96.09
55	121.32	-15	94.12
50	119.40	-20	92.16
45	117.47	-25	90.19
40	115.54	-30	88.22
35	113.61	-40	84.27
30	111.67	-50	80.31

Ordering guide:

Model	Product number	Description
TEK PT 100	1173040	duct sensor; 100 ohm / 0 °C

Products fulfil the requirements of directive 2004/108/EY and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).

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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).