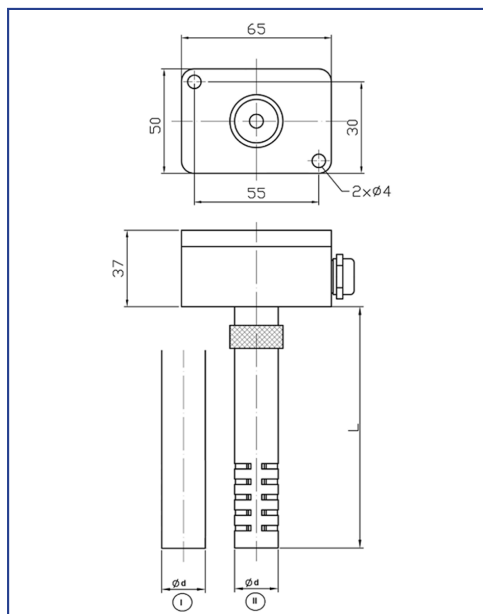


KTK-53

Duct temperature sensor with protection tube



Duct temperature sensor type KTK-53 has been designed for air temperature measurement in a ventilating ducts where plastic protection box need to be fixed.

A terminal block or transmitter can be installed inside the protection box. Resistance thermometer is placed in openwork pipeline part, results of it can be checked using line in 2, 3, or 4 wire configuration.

Type	Execution	Version
KTK-53	Basic - acc to catalog card	I or II
KTK-53/Exi	Intrinsic – acc to Atex	II

Technical specification

RTD type	Version	Characteristic	Measuring range (standard/*shockproof)	Accuracy class	Max. sensor current	Lead wire config.
1xPt100 1xPt1000 1xNi100	standard / *shockproof	acc. EN-60751	-30°C..+80°C / *(-30°C..+80°C)	B	8 mA	2, 3, 4 wire
			-30°C..+80°C / *(0°C..+80°C)	A	5 mA	3, 4 wire
				1/3B (AA)	3 mA	

Type	Protect. tube diameter d [mm]	Protect. tube length L [mm]
Standard (I)	Ø4, Ø6, Ø8	on request
Perforated (II)	Ø8, Ø10	

Protection box dimensions x,y,z [mm]	Material	Temp. range	Ingress Protection	Transmitter
65 x 50 x 37	Polymer ABS	-30°C..+70°C	IP 54	on request (depends on ambient humidity)
65 x 60 x 37	Aluminum alloy	-30°C..+80°C		

Dynamic reaction time (in air)	
Time constant	Time
T _{0,63} (0 m/s)	100 s
T _{0,63} (2 m/s)	25 s

Non-standard models available.

Ordering Information

КТК-53	A	B	C	D	E	F	G	H	I	J	K
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A Execution	
-	Basic
/Exi	Intrinsic safe

B Resistor	
1xPt100	Single Pt100
1xPt1000	Single Pt1000
1xNi100	Single Ni100

C Class	
B	B
A	A
1/3B	1/3B (AA)

D Lead wire configuration	
2p	2 wire
3p	3 wire
4p	4 wire

E Protection tube type	
I	Standard
II	Perforated

F Protection tube diameter d	
	specify in mm

G Protection tube length L	
	specify in mm

H Housing material	
ABS	Polymer ABS
AL	Aluminum alloy

I Operating temperature	
	specify in °C

J Transmitter	
	specify type and temp. range in °C

K Version	
Z	Standard (ceramic wire wound element)
W	Shockproof (thin-film element)

Ordering Example

КТК-53-1xPt100-A-3p-I-6-80-AL-25-Z

stands for: Duct temperature sensor with resistor 1xPt100 class A, configuration 3-wire, standard protection tube, diameter d=6mm, length L=80mm, aluminium alloy housing, operating temp. 25°C, w/o transmitter, standard sensor version (ceramic wire wound element).