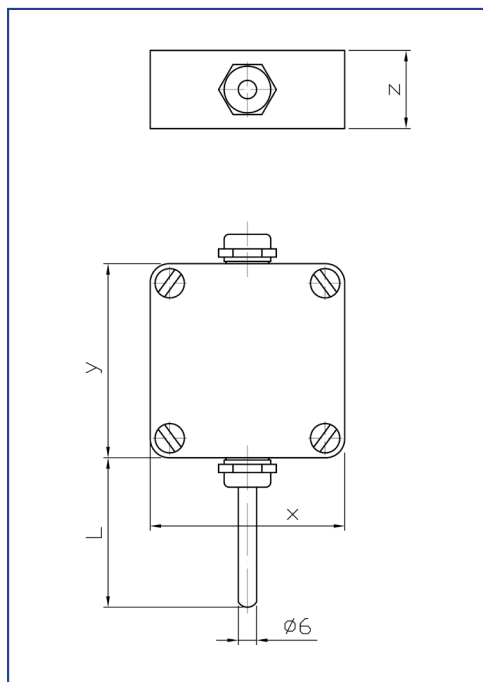


KTO-52

Ambient temperature sensor with protection tube



Ambient temperature sensor type KTO-52 has been designed for temperature measurement indoors and outdoors – particularly in air conditioned systems.

Good looking plastic protection box, with terminal block inside, is adjusted for wall installation using two screws bolts distances 46 x 34 mm. Thermometer resistor can be of 2, 3, or 4 wire configuration. A wide range of transmitters can be installed inside the protection box.

Type	Execution
KTO-52	Basic - acc to catalog card
KTO-52/Exi	Intrinsic – acc to Atex

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	

Protect. tube diameter [mm]	Material acc. DIN/AISI	Protect. tube length L [mm]
ø6	1.4571 / 316Ti	on request

Protection box dimensions x,y,z [mm]	Material	Temp. range	Ingress Protection	Transmitter
50 x 65 x 35	Polymer ABS	-30°C..+70°C	IP 54	on request (depends on ambient humidity)
60 x 65 x 35	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

KTO-52	A	B	C	D	E	F	G	H	I
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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 length L	
	specify in mm

F Housing material	
ABS	Polymer ABS
AL	Aluminum alloy

G Operating temperature	
	specify in °C

H Transmitter	
	specify type and temp. range in °C

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

Ordering Example

KTO-52/Exi-1xPt100-A-3p-60-AL-75-Z

stands for: Ambient temperature sensor, intrinsic safe execution, with resistor 1xPt100 class A, configuration 3-wire, protection tube length L=60 mm, aluminum alloy housing, max. operating temp. 75°C, w/o transmitter, standard sensor version (ceramic wire wound element).