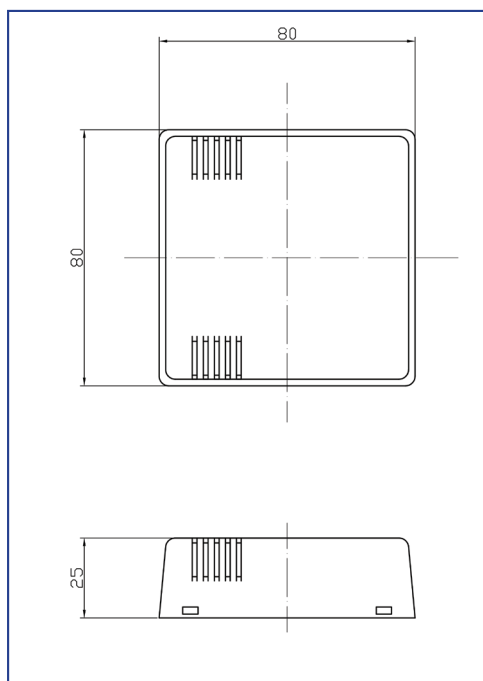


KTO-51

Ambient temperature sensor



Ambient temperature sensor type KTO-51 has been designed for temperature measurement indoors – especially in air conditioning systems (HVAC).

Esthetic plastic protection box, designed to be mounted through two screw bolts on wall or under plaster plug in socket Ø55 mm. RTD sensor can be of 2, 3 or 4 wire configuration.

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..+70°C / *(-30°C..+70°C)	B	8 mA	2, 3, 4 wire
			-30°C..+70°C / *(0°C..+70°C)	A	5 mA	3, 4 wire
				1/3B (AA)	3 mA	

Protection box dimensions [mm]	Material	Temp. range	Ingress Protection
80 x 80 x 25	Polymer ABS	-30°C..+70°C	IP 40

Dynamic reaction time (in air)	
Time constant	Time
$T_{0.63}$ (0 m/s)	40 s
$T_{0.63}$ (2 m/s)	10 s

Non-standard models available.

Ordering Information

KTO- 51	A	B	C	D	E	F	G
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A Resistor	
1xPt100	Single Pt100
1xPt1000	Single Pt1000
1xNi100	Single Ni100

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

C Lead wire configuration	
2p	2 wire
3p	3 wire
4p	4 wire

D Protection box material	
ABS	Polymer ABS

E Operating temperature	
	specify in °C

F Transmitter	
	specify type and temp. range in °C

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

Ordering Example

KTO-51-1xPt100-A-3p-ABS-75-Z

stands for: Ambient temperature sensor, with resistor 1xPt100 class A, 3-wire configuration, protection box material polymer ABS, max operating temperature 75°C, w/o transmitter, standard sensor version (ceramic wire wound element).