

Description

KTS120 series cable sensor is a low-cost temperature sensor specially designed for temperature measurement, which is suitable for temperature measurement under various working conditions. It can measure the temperature in the air duct and liquid pipeline through different installation and fixed accessories.



Features

- Range from -40 to +200°C
- Resistance output
- Standard accuracy, see table
- Protection class: IP65 / NEMA 4

Applications

KTS120 temperature transmitter used for temperature measurement in heating, ventilation and air conditioning systems enabling weather-dependent temperature regulation.

Technical Data

Model	KTS120
Temperature sensitive element	PT100 Class A Accuracy $\pm(0.15+0.002t)$
	PT 1000 Class A Accuracy $\pm(0.15+0.002t)$
	NTC 10k B3950 Accuracy B:3989K \pm 1%
	NTC 10k B3435 Accuracy B:3435K \pm 1%
	NTC 1k Accuracy B:3500K \pm 1%
	NTC 2k Accuracy B:3977K \pm 0.3%
Response time	<1min / < 30s, measuring the liquid in the pipeline
Element connection	2-wire
Media	Air or liquid
Operating temp	-30 ... + 70°C (body) / -30 ... + 200°C(probe)
Storage temp	-30 ... +70°C
Measuring range	-40 ... +200°C
Housing material	PC & ABS, UL94-V0
Protection	IP65/NEMA 4
Cable gland	M16*1.5

Notes On Disposal



Most Keram Controls products may contain valuable materials that should be recycled rather than treated as domestic waste. Please pay attention to the relevant regulations of local disposal.

Product Certification



Declaration of conformity
The declaration of conformity of the products can be found on our website [Https://: www.keramcontrols.com](https://www.keramcontrols.com)

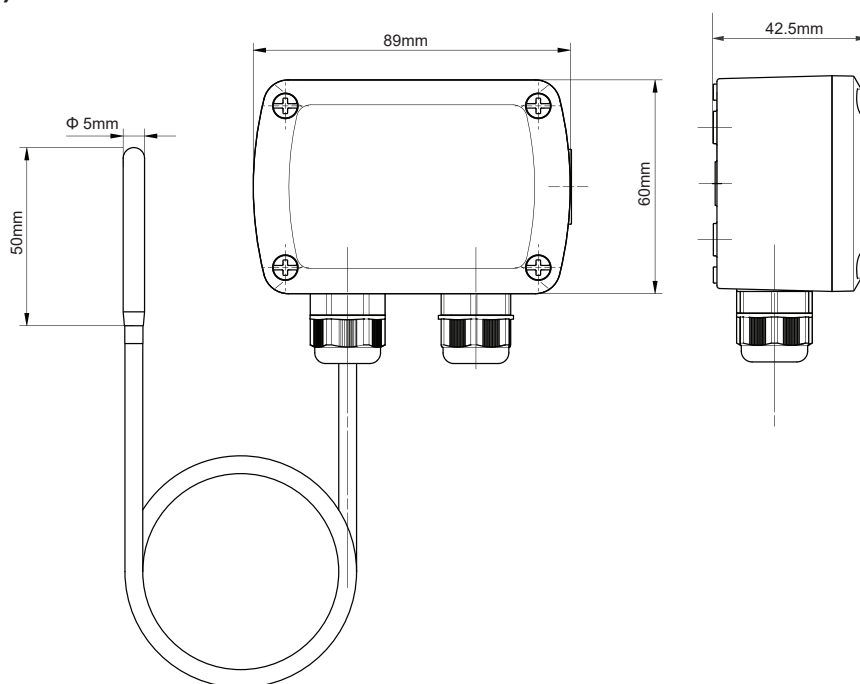
Additional Instructions

Temperature compensation

Probe length	Cable resistance	Temperature compensation
0.5m	0.086 Ω	0.22°C
2m	0.344 Ω	0.88°C
3m	0.516 Ω	1.32°C

* High resistance temperature resistance ($R > 1000 \Omega$), temperature compensation can be ignored.

Dimensions (mm)



Ordering Guide

KTS120	Element		Probe length	
Model	Element		Probe length	
KTS120	PT100 Class A	(1)	0.5m	(A)
	PT1000 Class A	(2)	2m	(B)
	NTC 10k B3950	(3)	3m	(C)
	NTC 10k B3435	(4)		
	NTC 1k	(5)		
	NTC 2k	(6)		

Order Examples

KTS120-1-A

Model	KTS120 Temperature Sensor
Element	PT100 Class A
Probe length	0.5m