

KTT120

Cable Temperature Transmitter

KeramControls®

Description

KTT120 series cable transmitter is a low-cost temperature transmitter 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. The output model is standard 4-20mA, 0-10V, and RS 485 output mode can also be selected.

Features

- Range from -40 to +200°C
- 4-20mA, 0-10V, 0-5V, RS-485 output
- Standard accuracy $\pm 0.3^{\circ}\text{C}$
- Protection class: IP65 / NEMA 4

Applications

KTT120 temperature transmitter used for temperature measurement in heating, ventilation and air conditioning systems enabling weather-dependent temperature regulation.

Technical Data

Model	KTT120
Accuracy	$\pm 0.3^{\circ}\text{C}$ @20°C
Response time	<1min, In 3m/s (590ft/min) air duct / < 30s, measuring the liquid in the pipeline
Repeatability	$\pm 0.01\%$ at FS/year
Media	Air or liquid
Operating temp	-30 ... + 200°C(probe) -30 ... + 70°C(body)
Storage temp	-30 ... +70°C
Measuring range	-40 ... +200°C
Operatin & storage humidity range	5% RH ... 95% RH, no condensation
Power consumption	<1.5 W
Power supply	24VAC/DC $\pm 10\%$
Output	4-20mA (2 wire) 4-20mA (3 wire) 0-5 / 0-10VDC (3 wire) RS-485
Housing material	PC & ABS, UL94-V0
Protection	IP65/NEMA4
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

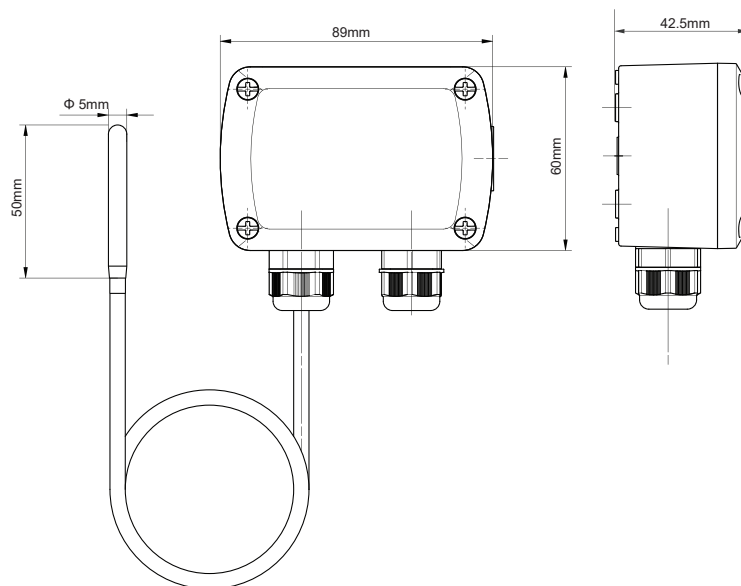


Declaration of conformity

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



Dimensions (mm)



Measuring Range Adjustment

ON 1 2 3	ON 1 2 3	ON 1 2 3	ON 1 2 3	ON 1 2 3
-40 ... +70°C	0 ... +50°C	0 ... +100°C	-30 ... +200°C	-40 ... +140°C

Output Setting (3-wire Model)

ON 4 5	ON 4 5	ON 4 5
0-5V	0-10V	4-20mA



To configure the transmitter, it must not be energized. Then, you can make the settings required, with the DIP switches. When the transmitter is configured, you can power it up.

Ordering Guide

KTT120	Probe length		Output	
Model	Probe length		Output	
KTT120	0.5m	(A)	4-20mA (2 wire)	(E)
	2m	(B)	4-20mA (3 wire)	(F)
	3m	(C)	0-5 / 0-10VDC (3 wire)	(G)
			RS-485	(H)

Order Examples

KTT120-B-E

Model	KTT120 temperature transmitter
Probe length	2m
Output	4-20mA (2 wire)