KTH400
Temperature and Humidity Transmitter

KeramControls®

Description

KTH400 series economical temperature and humidity transmitters are wall mounted and air duct mounted. The newly designed housing minimizes installation costs and provides excellent protection against pollution and condensation. The output signal can be voltage or current and RS485 signal.

Features

- More compact housing, suitable for narrower installation space.
- φ6mm stainless steel probe
- IP65 / NEMA 4 Protection
- 4-20mA, 0-10V, 0-5V, RS485 output available

Applications

- HVAC system
- Greenhouse
- Food transportation
- Cold storage and refrigeration
- Clean room environment monitoring

Technical Data

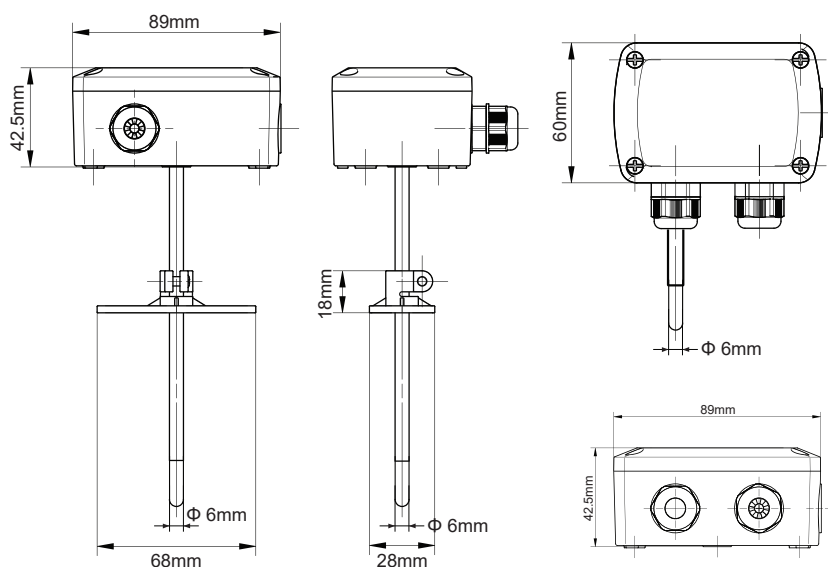| Model	KTH400
Power supply	16-30V DC (2 wire 4-20mA) / 16-30V AC or V DC (0-5V/0-10V/RS 485)
Output	4-20mA / 0-5V / 0-10V/ RS 485
Operating temp	-35 ··· +70℃
Storage temp	-40 ··· +60℃
Operating humidity	0 ··· 100 %RH
Maximum wind / flow speed	30 m/s
Electromagnetic compliance	EN61326-1, Industrial Environment
Housing material	PC+ABS (UL-V0 approved)
Ingress protection	IP65 / NEMA 4
Cable gland	M16*1.5
Measurement performance-Temperature	
Measurement range	-35 ··· +80 ℃
Accuracy	±0.3℃ (20-60℃)
Temperature dependence	±0.01 ℃/℃
Measurement performance-Humidity	
Measurement range	0 ··· 100 %RH
Accuracy	±2% (0-90% @25℃) / ±3% (90-100% @25℃)
Stability in typical HVAC applications	±1 %RH/year

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

CE

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

:: Dimensions (mm)

:: Measuring Range Adjustment

ON 1 2	ON 1 2	ON 1 2	ON 1 2
-35 ··· +75℃	-35 ··· +35℃	0 ··· +50℃	0 ··· +80℃

:: Output Setting (3-wire Model)

ON 3 4	ON 3 4	ON 3 4
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

KTH400	–	Output	–	Installation	–	Filter

Model	Output		Installation		Filter	
KTH400	4-20mA(2-wire)	(E)	Wall	(W)	PTFE	(P)
	4-20mA(3-wire)	(F)	Duct	(D)		
	0-5V/0-10VDC(3-wire)	(G)				
	RS-485	(H)				

:: Order Examples

KTH400-FWP

Model	KTH400 Temperature and Humidity Transmitter
Output	4-20mA
Installation	Wall-mounted
Filter	PTFE