VERIS INDUSTRIES ™

TK Series
Temperature Probe

Product Overview

TK ceiling mounted temperature sensors monitor the temperature of the air in a duct. The design includes a pre-calibrated sensor housed in a sturdy stainless steel probe with no junction box. The TK has a resistive output compatible with building control systems. It is warranted to meet accuracy specifications for a period of five years.

Product Identification

NOTICE
• This product is not intended for life or safety applications. • Do not install this product in hazardous or classified locations. • Read and understand the instructions before installing this product. • Turn off all power supplying equipment before working on it. • The installer is responsible for conformance to all applicable codes.

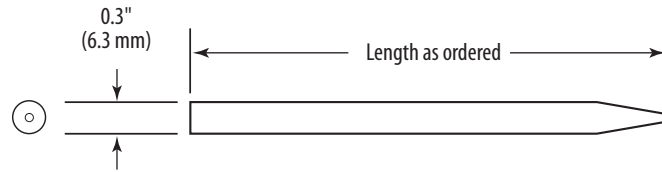No responsibility is assumed by Veris Industries for any consequences arising out of the use of this material.

Probe Length

TK ☐

B = 4 1/2" (115 mm)
C = 6" (153 mm)
D = 8" (204 mm)
R = 14" (356 mm)

Sensor Type

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B = 100R platinum, RTD
C = 1k platinum, RTD
D = 10k T2, Thermistor
E = 2.2k, Thermistor
F = 3k, Thermistor
G = 10k CPC, Thermistor
H = 10k T3, Thermistor
I = 1k Balco (Nickel-iron) RTD
J = 10k Dale, Thermistor
K = 10k w/11k shunt, Thermistor
M = 20k NTC, Thermistor
N = 1800 ohm, Thermistor
P = 10mV/°C, Linitemp
R = 10k US, Thermistor
S = 10k 3A221, Thermistor
T = 100k, Thermistor
U = 20k "D", Thermistor
CC = 15k, Thermistor

Output

R0

= Resistive

Cal Certs

☐

0 = None
1 = 1 Point Cal Cert
2 = 2 Point Cal Cert

Specifications

Wiring	22 AWG; 2-wire RTD/Thermistor
Housing	Stainless Steel
LINITEMP OPTION	
Input Power	5-30 VDC
Output	1 µA/°C or 10 mV/°C
Operating Temperature Range	-25° to 105°C (-13 to 221°F)
Accuracy	
Calibration Error	1.5°C (35°F) typical; 2.5°C (37°F) max. at 25°C (77°F)
Error over Temperature	1.8°C (35°F) typical; 3.0°C (34°F) max. over 0° to 70°C (32° to 158°F) range;
	2.0°C (35°F) typical; 3.5°C (38°F) max. over -25° to 105°C (-13° to 221°F) range

Increased cable length affects the readings of lower resistance RTDs (100R platinum RTD).
Room temperature error is documented on each unit.

Dimensions

0.3"
(6.3 mm)

Length as ordered

Installation

1. Mount probe using the Veris AA64 or similar mounting clip.

2. Wire as shown below.

Thermistor — Orange
RTD — Orange