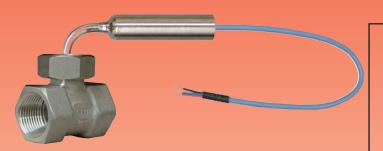
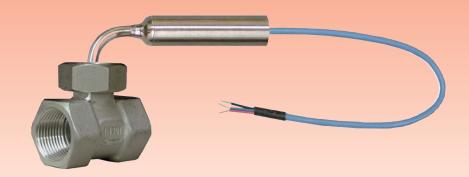
TSP SERIES TEMPERATURE SENSOR FOR PIPES



Flow
Pressure
Level
Temperature
measurement
monitoring
control



- For Liquids or Gases in Pipes
- Pt-100 RTD or 4-20 mA Output
- 1/4" to 1-1/2" Pipe Sizes
- Temperature Ranges -40 to +300°F
- Brass or Stainless Steel Housings
- Simple and Reliable





USA

KOBOLD Instruments Inc. 1801 Parkway View Drive USA-Pittsburgh, PA 15205 +1 412-788-2830

Fax +1 412-788-2830 Fax +1 412-788-4890 E-mail: info@koboldusa.com



CANADA

KOBOLD Instruments Canada Inc. 9A Aviation Pointe-Claire, QC H9R 4Z2

+1 514-428-8090

Fax +1 514-428-8899 E-mail: kobold@kobold.ca Visit KOBOLD Online at www.kobold.com

Model: TSP



Features

- For Liquids or Gases in Pipes
- Pt-100 RTD or 4-20 mA Output
- 1/4" to 1-1/2" Pipe Sizes
- Temperature Ranges -40 to +300°F
- Brass or Stainless Steel Housings
- Simple and Reliable

The series TSP temperature sensors are ideal for temperature measurement of liquids and gases in pipes up to 1-1/2" in diameter. The sensor is conveniently installed into a threaded pipe tee made of either brass or stainless steel, making installation completely hassle free. The user has the choice of either a Pt-100 RTD or fixed range integral 4-20 mA transmitter as an output.

The TSP series' simple design makes it an economical choice for OEMs and end users who are looking for an economical yet reliable solution for temperature measurement in small pipes.

Specifications

Temperature

-40 to +300°F Range: Max. Pressure: 750 PSIG

Wetted Materials

Brass Housing: Brass, 316 SS, Viton 316 SS, 304 SS, Stainless Housing:

Viton

Electrical Specifications

Available Outputs: RTD or 4-20 mA

integral transmitter

based on order code

RTD Type: Pt-100, 3-wire,

Class B per DIN 43670, $\alpha = 0.00385$ HEX2 -

TSP Dimensional Drawing

Order Number Dimensions (inches)								
	Α	В	С	HEX ₁	HEX ₂	Thread (NPT)		
TSP-5N2	1.97	0.39	2.45	1.06	1.18	1/4"		
TSP-5N3	1.97	0.39	2.45	1.06	1.18	3/8"		
TSP-5N4	1.97	0.39	2.45	1.06	1.18	1/2"		
TSP-5N5	2.05	0.59	2.51	1.25	1.18	3/4"		
TSP-5N6	2.20	0.59	2.61	1.54	1.18	1"		
TSP-5N7	2.60	-	2.80	1.97	1.18	1-1/4"		
TSP-5N8	2.60	1	2.92	2.36	1.18	1-1/2"		

Transmitter

Range:

Accuracy:

Supply Voltage

Type: 4-20 mA,

Zero/Span Drift: 0.025%/F

2-wire fixed range

10-30 VDC

±0.5% of span

Electrical

Connection:

6 Ft. Teflon jacketed cable or 6 Ft. Teflon iacketed cable with

stainless steel armor

Max. Loop Load: 50(V_{SUDDIV} -10) ohms **Electrical**

Protection: NEMA 6P/IP 68

Ordering Codes				
Housing	Output Type/Measuring Range	Fitting(NPT)	Cable	Options
TSP - 51 = Brass TSP-52 = SS	05 = Pt-100 RTD/-40 to +300°F 10 = 4-20 mA/ -40 to +50°F 15 = 4-20 mA/ -40 to +120°F 20 = 4-20 mA/ 0 to +120°F 25 = 4-20 mA/ 32 to +250°F 30 = 4-20 mA/ 32 to +300°F YY = 4-20 mA/ Custom Range	N2 = 1/4" N3 = 3/8" N4 = 1/2" N5 = 3/4" N6 = 1" N7 = 1-1/4" N8 = 1-1/2"	TA = 6 Ft. Teflon w/ SS armor TF = 6 Ft. Teflon	C = 1/2" NPT conduit fitting EC = Extended cable length (specify desired length when ordering)

Example Ordering Code: TSP-5220N4TAC