# **TS Series** Thermocouple Sensor Assembly

aerospace climate control electromechanical filtration fluid & gas handling hydraulics pneumatics process control sealing & shielding

### **Product Overview:**

Partek has developed a Thermocouple sensor assembly solution.

Partek's solution uses a thermocouple with a 10 mil PFA coating. This probe is inserted through a special assembly which locates it directly into the flow stream. This assembly has minimal dead space and entrapment areas. This increases the longevity of the sensor and reduces pressure drop. The customer benefits from cost savings from less maintenance, trouble shooting, and installation.



## **Contact Information:**

Parker Hannifin Corporation Veriflo Division **Partek Operation** 7075 East Southpoint Road Tucson, Arizona 85756

phone 520 574 2600 fax 520 574 2700

www.parker.com/partek

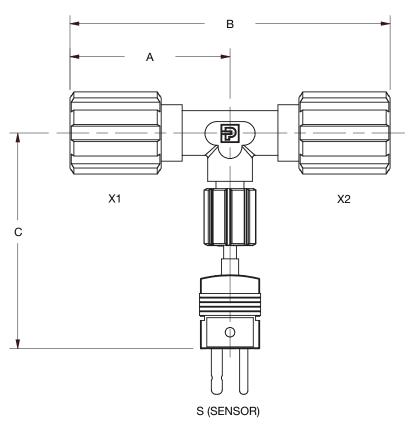
#### **Product Features:**

- One piece drop in assembly.
- High Purity PFA coated thermocouples for superior chemical resistance.
- Custom molded fitting for 1/8" thermocouple sensors and leak free connection.
- Point of use temperature monitoring in fluid handling systems.
- Excellent thermocouple accuracy and repeatability.



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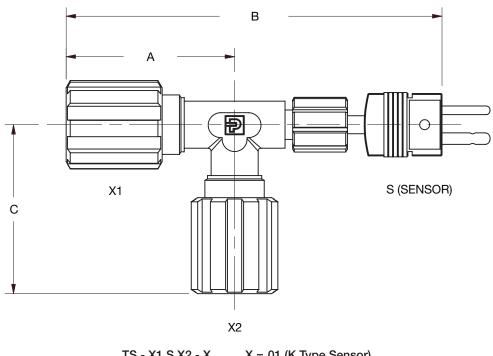
#### STRAIGHT THRU PATTERN (SENSOR ON BRANCH)

TS - X1 X2 S - X X = 01 (K Type Sensor) 02 (J Type Sensor)

## Ordering Information

Model	Vd	NO	S	Α		В		С	
Number	X1	X2		inch	mm	inch	mm	inch	mm
TS-4B4BS-X	1/4" PARBOND	1/4" PARBOND	SENSOR	1.08	27.40	2.16	54.90	2.49	63.20
TS-6B6BS-X	3/8" PARBOND	3/8" PARBOND	SENSOR	0.91	23.00	1.81	46.00	2.49	63.20
TS-6F6FS-X	3/8" PARFLARE	3/8" PARFLARE	SENSOR	1.76	44.60	3.51	89.20	23.70	60.10
TS-8B8BS-X	1/2" PARBOND	1/2" PARBOND	SENSOR	1.09	27.70	2.18	55.40	2.56	64.50
TS-8F8FS-X	1/2" PARFLARE	1/2" PARFLARE	SENSOR	1.88	47.60	3.75	95.30	2.31	58.70
TS-8RF8FS-X	1/2" REDI-FLARE	1/2" PARFLARE	SENSOR	1.88	47.60	3.74	95.00	2.41	61.20
TS-12F12FS-X	3/4" PARFLARE	3/4" PARFLARE	SENSOR	2.13	54.00	4.26	108.10	2.33	59.20
TS-12F12RFS-X	3/4" PARFLARE	3/4" REDI-FLARE	SENSOR	2.16	54.90	4.42	112.30	2.59	65.80
TS-16F16FS-X	1" PARFLARE	1" PARFLARE	SENSOR	2.78	70.50	5.55	141.00	2.59	65.80





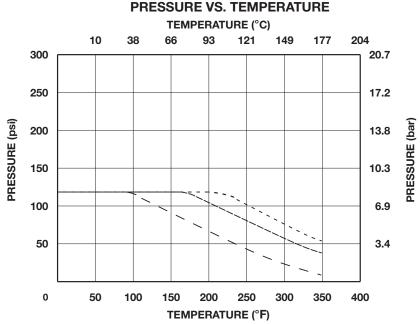
#### ANGLED PATTERN (SENSOR ON RUN)

TS - X1 S X2 - X X = 01 (K Type Sensor) 02 (J Type Sensor)

## Ordering Information

Model	Va	•	X2	Α		В		С	
Number	X1	S		inch	mm	inch	mm	inch	mm
TS-6BS6B-X	3/8" PARBOND	SENSOR	3/8" PARBOND	0.91	23.00	3.39	86.10	0.91	23.10
TS-8BS8B-X	1/2" PARBOND	SENSOR	1/2" PARBOND	1.33	33.80	3.68	93.30	1.32	33.50
TS-8FS8F-X	1/2" PARFLARE	SENSOR	1/2" PARFLARE	1.92	48.60	4.17	105.90	1.92	48.60
TS-12FS12F-X	3/4" PARFLARE	SENSOR	3/4" PARFLARE	2.13	54.00	4.47	113.50	2.12	53.70
TS-16FS16F-X	1" PARFLARE	SENSOR	1" PARFLARE	2.78	70.50	5.39	136.80	2.76	70.10

## TS Series Flow Curve



#### Specifications

Materials of Construction				
Wetted Options	PFA, PTFE, PFA coated probe*			
Non-wetted Options	PFA, PVDF, ETFE			
Pressure Ranges				
Ranges	See Pressure vs. Temperature Chart			

#### Temperature Ranges

Ranges See Pressure vs. Temperature Chart

Pressure ranges for operation at ambient temperatures. For additional information on materials of construction, functional performance and operating conditions, please contact factory.

\*Manufactured by Omega.

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