



## Order from: C A Briggs Company 622 Mary Street; Suite 101; Warminster, PA 18974

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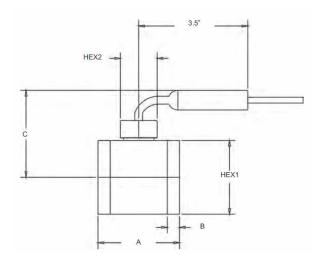


## Description

TSP temperature sensors are ideal for measuring the temperature 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. Installation is hassle free and easy. The TSP comes with either a Pt-100 RTD or a fixed range, integral 4-20 mA transmitter as an output. The simple and economical design makes it an ideal choice for OEM applications and end users who are looking for a reliable solution at a reasonable price.

| Technical D | )etails |
|-------------|---------|
|-------------|---------|

| Temperature Range:<br>Max. Pressure: | -40300 °F<br>750 PSIG                    |
|--------------------------------------|--|
| Materials                            |  |
| Brass Models:                        | Brass, 316 SS, FKM                       |
| SS Models:                           | 316 SS, 304 SS, FKM                      |
| <b>Electrical Specifications</b>     |  |
| Outputs:                             | RTD or 4-20 mA Integral Transmitter      |
| RTD Type:                            | Pt-100, 3-wire, Class B per DIN EN 60751 |
|                                      | (a = 0.00385)                            |
| Transmitter                          |  |
| Туре:                                | 4-20 mA, 2-wire, Fixed Range             |
| Supply Voltage:                      | 10-30 V <sub>DC</sub>                    |
| Max. Loop Load:                      | 50 (V <sub>supply</sub> -10) ohms        |
| Accuracy:                            | ± 0.5% of Span                           |
| Zero/Span Drift:                     | 0.025% / °F                              |
| Electrical Connection:               | 6 ft PTFE-Jacketed Cable,                |
|                                      | with or without SS Armor                 |
| Protection:                          | NEMA 6P, IP 67                           |



## **Dimensions** (in inches)

| Model Number/Thread  | Α    | В    | С    | HEX <sub>1</sub> | $\text{HEX}_2$ |
|----------------------|------|------|------|------------------|----------------|
| TSP-5N2 (1/4" NPT)   | 1.97 | 0.39 | 2.45 | 1.06             | 1.18           |
| TSP-5N3 (3/8" NPT)   | 1.97 | 0.39 | 2.45 | 1.06             | 1.18           |
| TSP-5N4 (1/2" NPT)   | 1.97 | 0.39 | 2.45 | 1.06             | 1.18           |
| TSP-5N5 (3/4" NPT)   | 2.05 | 0.59 | 2.51 | 1.25             | 1.18           |
| TSP-5N6 (1" NPT)     | 2.20 | 0.59 | 2.61 | 1.54             | 1.18           |
| TSP-5N7 (1-1/4" NPT) | 2.60 |      | 2.80 | 1.97             | 1.18           |
| TSP-5N8 (1-1/2" NPT) | 2.60 |      | 2.92 | 2.36             | 1.18           |

## Order Details (Example: TSP-52 20 N4 TAC)

| Material           | Output Type / Measuring Range                                     | Fitting                                    | Cable                               | Options   |
|--------------------|---|--|-------------------------------------|---|
|                    | 05 = Pt-100 RTD (-40300 °F)                                       | N2 = 1/4" NPT                              |                                     |   |
| TSP-51 = Brass     | <b>10</b> = 4-20 mA (-4050 °F)<br><b>15</b> = 4-20 mA (-40120 °F) | N3 = 3/8" NPT<br>N4 = 1/2" NPT             | <b>TA</b> = 6 ft PTFE with SS Armor | C = 1/2" NPT Conduit Fitting  |
| <b>TSP-52</b> = SS | <b>20</b> = 4-20 mA (0120 °F)<br><b>25</b> = 4-20 mA (32250 °F)   | <b>N5</b> = 3/4" NPT<br><b>N6</b> = 1" NPT | <b>TF</b> = 6 ft PTFE               | <b>EC</b> = Extended Cable Length<br>(Specify Length when Ordering) |
| 101-02 00          | <b>30</b> = 4-20 mA (32300 °F)                                    | <b>N7</b> = 1-1/4" NPT                     |                                     | (-,)  |
|                    | <b>YY</b> = 4-20 mA (Custom Range)                                | <b>N8</b> = 1-1/2" NPT                     |                                     |   |