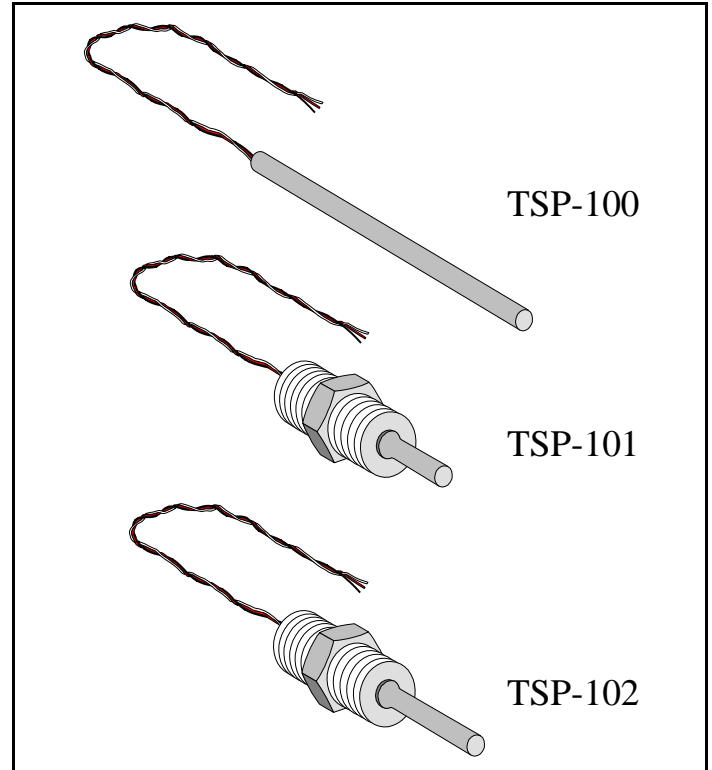
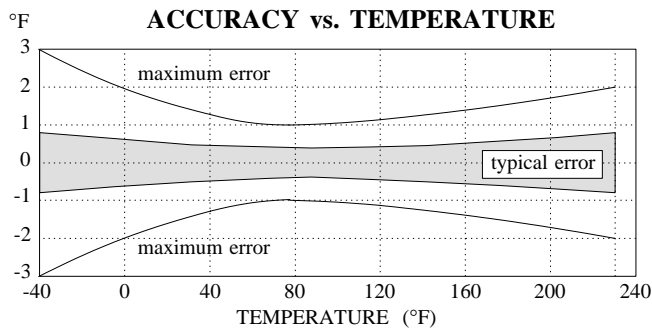


## TSP Series

-40 to 230 °F Sensors

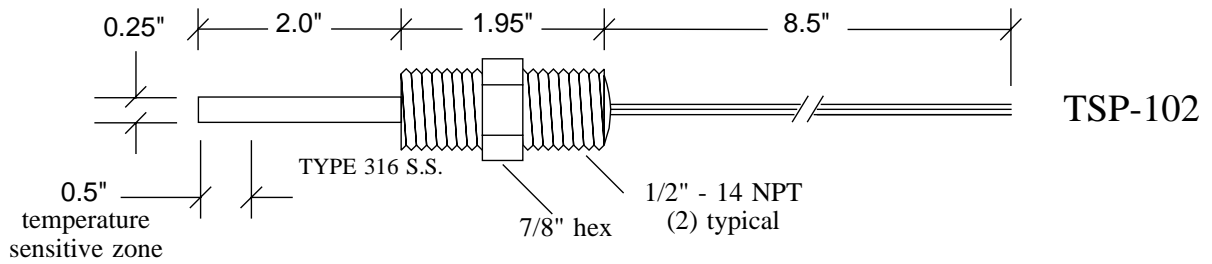
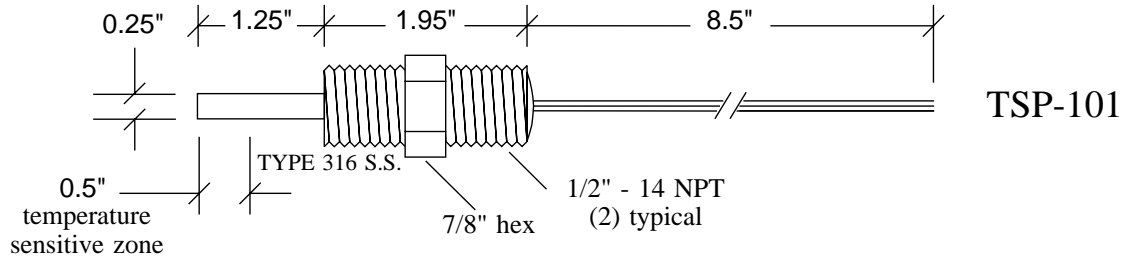
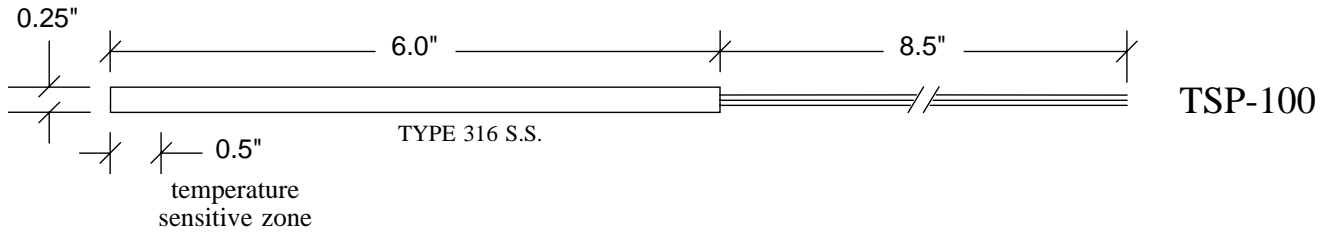
The TSP Series sensors are precision solid state temperature sensors with an output voltage that is linearly proportional to degrees Fahrenheit (10mV/°F). Since the TSP Series sensors are precalibrated, there is no need to match a sensor with a transmitter; this can be especially convenient during installation and service. The TSP Series sensors provide typical accuracies of  $\pm 0.4$  °F (at 77 °F) and  $\pm 0.8$  °F (over the -40 to 230 °F range).

When connected to a Peaktronics XMA-101 4-20mA Transmitter, no calibration is required to achieve a 5 to 200 °F signal from the XMA-101. Other precalibrated temperature ranges can be obtained when used with the XMA-102 transmitter. The TSP Series output has a limited ability to drive heavy capacitive loads that can be found in some wiring. No special precautions are necessary with capacitive loads that are less than 50pF.

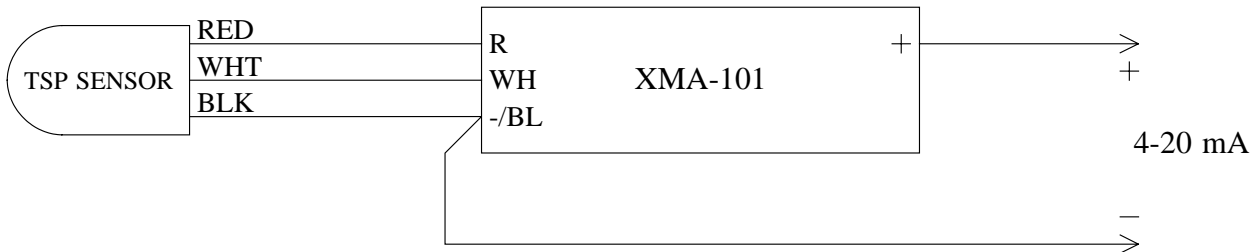


## SPECIFICATIONS

<b>TEMPERATURE RANGE</b>	-40 to 230 °F
<b>OUTPUT VOLTAGE</b>	-0.40 to 2.30 VDC (10mV/°F)
<b>STORAGE TEMPERATURE</b>	-60 to 135 °C
<b>OPERATING PRESSURE</b>	3000 PSI maximum
<b>ACCURACY</b> (see graph)	
at 77 °F	$\pm 0.4$ °F typical $\pm 1.0$ °F maximum
Full Range	$\pm 0.8$ °F typical $\pm 3.0$ °F maximum
<b>LONG TERM STABILITY</b> (1000 hours at maximum temperature)	$\pm 0.16$ °F typical



TYPICAL WIRING TO XMA-101 TRANSMITTER



TYPICAL WIRING TO ANALOG INPUTS

