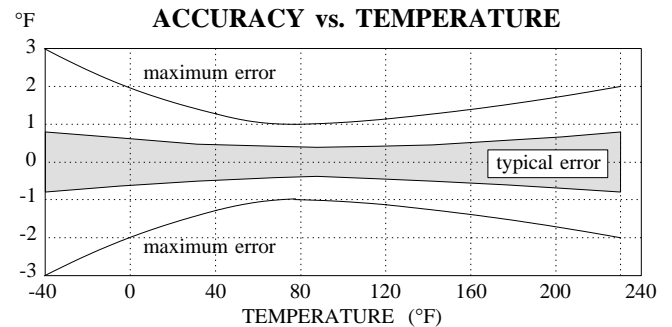


TXP-100

-40 to 230 °F Probe

The TXP-100 probe is a precision solid state temperature probe whose output voltage is linearly proportional to degrees Fahrenheit (10mV/°F). The TXP-100 does not require any external calibration or trimming to provide typical accuracies of ± 0.4 °F (at 77 °F) and ± 0.8 °F (over the -40 to 230 °F range). The TXP-100 probe contains the necessary compensation circuitry to drive a voltage into a heavy capacitive load, as is seen in some wiring. The linear output of the TXP-100 probe along with precise inherent calibration makes interfacing to a digital panel meter or A/D input especially easy.

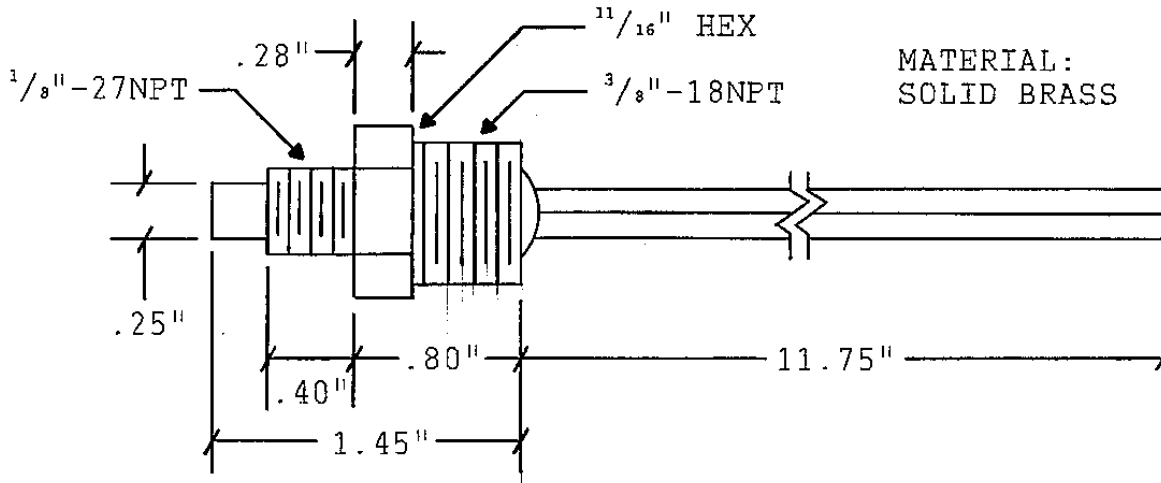


SPECIFICATIONS

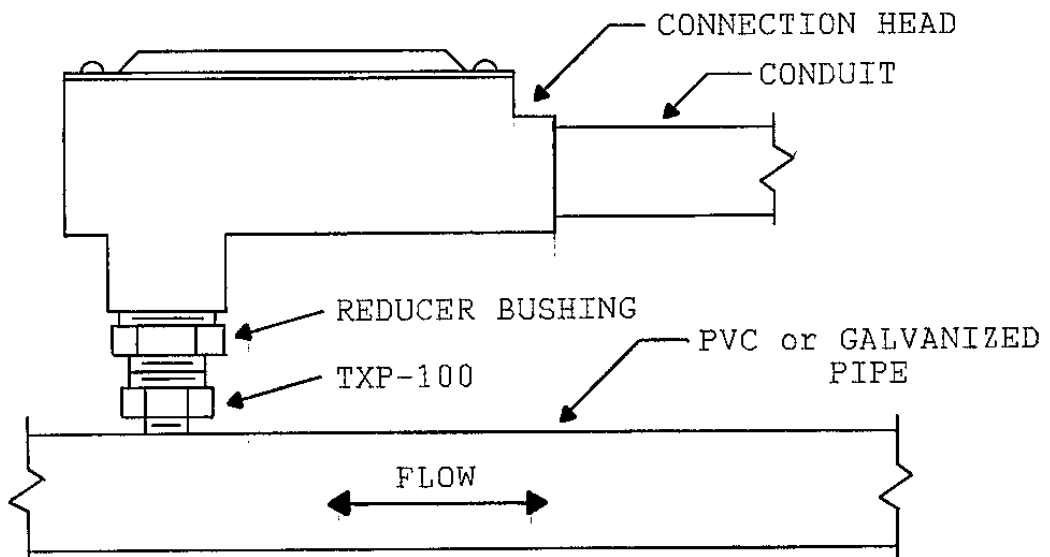
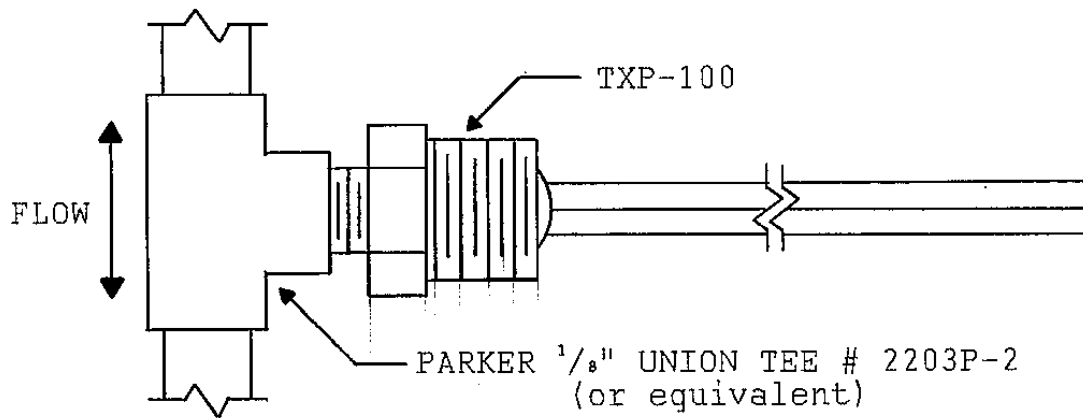
TEMPERATURE RANGE	-40 to 230 °F
OUTPUT VOLTAGE	-0.40 to 2.30 VDC (10mV/°F)
OUTPUT CURRENT	5 mA maximum
POWER REQUIREMENTS	
Supply Voltage	5 to 30 VDC
Quiescent Current	0.117 mA (not including output)
STORAGE TEMPERATURE	-60 to 135 °C
ACCURACY (see graph)	
at 77 °F	± 0.4 °F typical ± 1.0 °F maximum
Full Range	± 0.8 °F typical ± 3.0 °F maximum
LONG TERM STABILITY (1000 hours at maximum temperature)	
	± 0.16 °F typical
STORAGE TEMPERATURE	-60 to 135 °C

Note: As with any linear circuit connected to wires in a hostile environment, the performance of the TXP-100 probe can be affected by intense electromagnetic sources such as relays, radio transmitters, motors, SCR transients, etc.

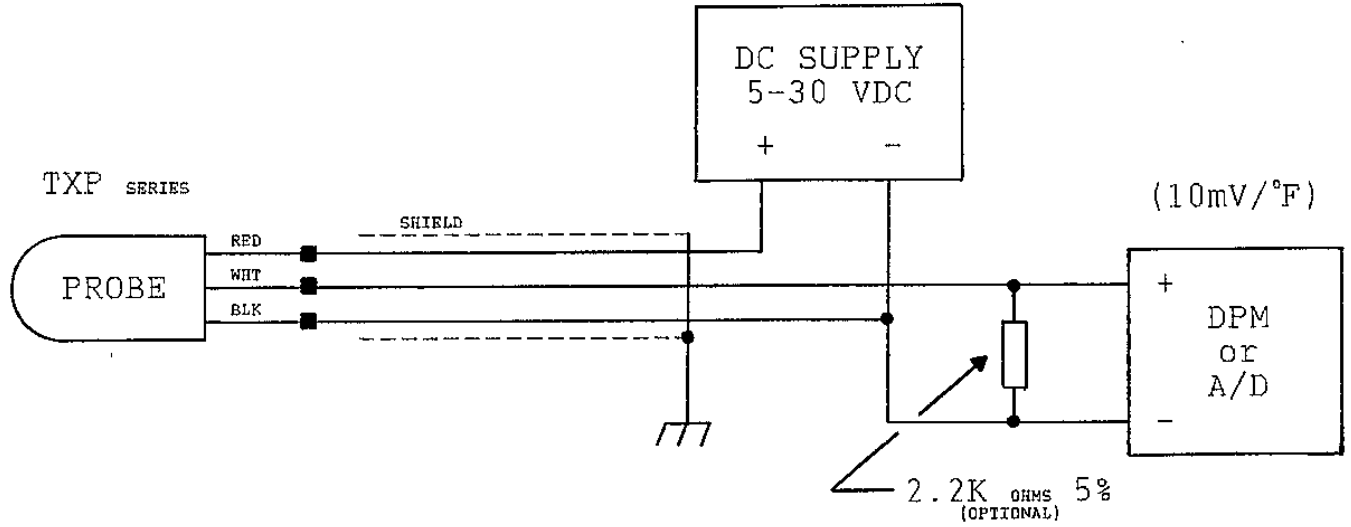
OUTLINE



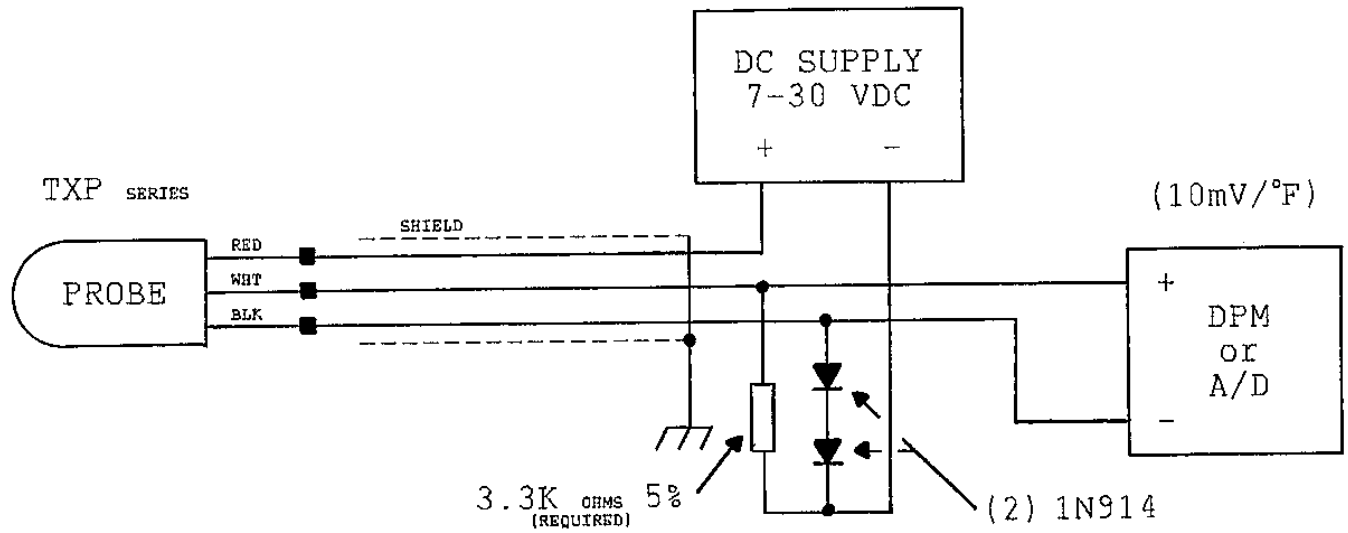
TYPICAL APPLICATIONS



WIRING DIAGRAMS



TXP SERIES PROBE (5 to 230 °F)



TXP SERIES PROBE (-40 to 230 °F)

