RTD Transmitter



920 SERIES

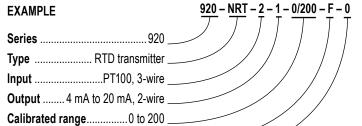
RTD TRANSMITTERS

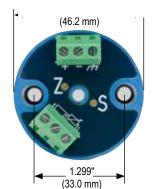
- High accuracy (±0.1%)
- 2-wire loop-powered 4 mA to 20 mA output
- Linearized output to temperature
- Input RTD PT100 with 3-wire compensation
- Analog design, potentiometer adjustable
- · Factory calibrated for fixed range
- · Metal housing
- Fits standard heads
- Optional model is fully field re-programmable with module and PC-based software

		ORDERING INFORMATION	
SERIES	920		
TYPE	NRT Head-mounted		
INPUT	2 PT-100, 3-wire		
OUTPUTS	1 4 mA to 20 mA, 2-wire	2 0 Vdc to 5 Vdc, 3-wire 5 0 Vdc to 10 Vdc, 3-wire	
CALIBRATED	Please specify low/high	1	
TEMPERATURE RANGE			
UNITS OF MEASURE	C Celsius	F Fahrenheit	
OPTIONS	0 None	PC* Computer Programmable	

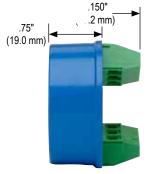
Special configurations available on request, please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

^{*}Requires program module and software, 4 mA to 20 mA only





Units of measureFahrenheit
OptionsNone



@Vnom = 24 Vdc, T.ambient = 25 °C, Span nom. = 100 °C

SP	ECIFICATIONS
Housing material	Die-cast zinc, enamel painted
Housing dimensions	1.82" dia. x 1.15" H
Input	PT100, 3-wire, α=0.00385, DIN EN 60751
Output	4 mA to 20 mA loop powered or voltage, linear to temperature
Power requirement	12-32 Vdc, polarity protected
Supply effect	0.02%/V, 0.001%/V with computer programmable version
Zero drift	±0.01% FS/ °C
Span drift	±0.01% FS/ °C
Long term drift	≤ 0.5% FS/year
Excitation current RTD	0.8 mA
Sensor lead resistance RTD	500 Ω max.
Accuracy ¹	0.1% FS (includes effects of linearity, hysteresis and repeatability)
Span/zero adjustment	20 turn potentiometer, ±10% for zero and span
Maximum loop resistance	Rmax. = [(Vsupply – 9 Vdc) / 20 mA
Open circuit detection	Overscale limit (27.0 mA) or underscale limit (2.2 mA)
Warm up	30 seconds
Temperature ranges	Ambient -40 °F to 176 °F (-40 °C to 80 °C) Storage -40 °F to 176 °F (-40 °C to 80 °C)

 $^{^{1}}$ Max. error on complete span. Error at calibration point \leq 0.1 $^{\circ}$ C.