RTD Transmitter



920 SERIES

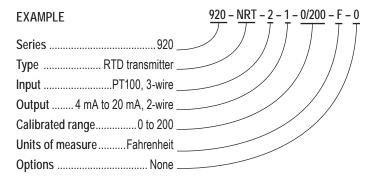
RTD TRANSMITTERS

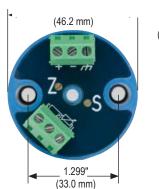
- High accuracy (±0.1%)
- 2-wire loop-powered 4 mA to 20 mA output
- · Linearized output to temperature
- Input RTD PT100 with 3-wire compensation
- Analog design, potentiometer adjustable
- · Factory calibrated for fixed range
- · Metal housing
- Fits standard heads
- Optional model is fully field re-programmable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

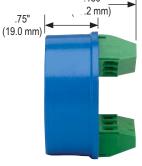
| ORDERING INFORMATION | | | | | | | | |
|----------------------|-----|------------------------|-----|------------------------|---|-------------------------|----|-----------------------|
| SERIES | 920 | | | | | | | |
| TYPE | NRT | RTD transmitter | | | | | | |
| INPUT | 2 | PT-100, 3-wire | | | | | | |
| 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 | 36 | 4 mA to 20 mA, 3-wire |
| CALIBRATED | Pl | lease specify low/high | | | | | | |
| TEMPERATURE RANGE | | | | | | | | |
| UNITS OF MEASURE | С | 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.

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







| SPECIFICATIONS | | | | | |
|----------------------------|--|--|--|--|--|
| 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 supply | 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 ≤ 0.1 °C.

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