Industrial RTD, Probe Type



900 SERIES

- General purpose RTD probe with PVC or PTFE lead wires
- Adjustable and welded fittings available
- Ideal for OEM applications
- PVC or PTFE jacketed lead wires are available
- A variety of fitting sizes and probe diameters are available
- RTD PT100 Ω standard, others available
- 2, 3 or 4-wire circuit types
- Isolation to 500 Vdc
- Custom designs available

SPECIFICATIONS	
Temperature ranges	-50 °F to 400 °F (-50 °C to 200 °C) -50 °F to 750 °F (-50 °C to 400 °C) -330 °F to 1,100 °F (-200 °C to 600 °C)
Sheath material	316 Stainless Steel
Finish (standard)	32 micro-inches maximum
Pressure rating	500 psi (34.5 bar), tube only
RTD element	PT100 Ω @ 32 °F (0 °C), α=0.00385 IEC 751
Lead wires	Stranded 22 AWG standard, PVC or PTFE insulation
Self-heating	50 mW / °C typical in moving water
Insulation resistance	Single element probes: 100 mega Ω/min. at 500 Vdc, leads to case Dual element probes: 100 mega Ω/min. at 100 Vdc, between element and leads to case
Transition	Sheath to wire transition max. temperature 266 °F (130 °C)

APPLICATIONS

- Chemical processing
- Textile production
- Automotive
- Plastics processing
- HVAC

Thermowells are recommended for pressure, corrosive fluids and high velocity applications, see pages 48-50.

⚠ **WARNING:** This product can expose you to chemicals including Lead and Nickel, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

ORDERING INFORMATION						
SERIES	**900**					
TEMPERATURE RANGES	**-50/400**	-50 °F to 400 °F	**-330/1100**	-330 °F to 1,100 °F		
	-50/750	-50 °F to 750 °F				
ACCURACIES	**1**	±0.12% (±0.3 °C) at 0 °C, Class B	**3**	±0.04% (±0.1 °C) at 0 °C, Class AA		
	2	±0.06% (±0.15 °C) at 0 °C, Class A				
ELEMENT TYPES	**C**	PT100 Ω at 0 °C	**M**	PT1000 Ω at 0 °C		
CIRCUIT TYPES	**1**	Single, 2-wire	**3**	Single, 4-wire	**5**	Dual, 3-wire
	2	Single, 3-wire	**4**	Dual, 2-wire	**6**	Dual, 4-wire
PROCESS CONNECTIONS	**0**	None	**8**	1/2" NPT Male		
	1	1/8" NPT Male	**48**	1/2" NPT Male w/sliding compression fitting **		
	2	1/4" NPT Male	**61**	Spring loaded 1/2" NPT **, ***		
ELECTRICAL CONNECTIONS	**6**	1/2" NPT conduit with 36" cable	**48**	M12 x 1 (5-pin) *		
	36	Integral cable 36"	**49**	3-pin RTD plug		
	37	1/2" NPT conduit with 6" flying leads	**50**	M12 x 1 (8-pin)		
STEM LENGTHS	**025**	2.5"	**090**	9"	**180**	18"
	040	4"	**120**	12"	**240**	24"
	060	6"	**150**	15"		
STEM DIAMETERS	**1**	1/8"	**3**	3/8"	**6**	6 mm
	2	1/4"	**4**	1/2"		

Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

* Single circuit types only

** Add 2" to stem length for this option. If installing with thermowells, Process Connection option 48 or 61 must be selected.

*** Only available with Electrical Connection options 6 & 37

EXAMPLE

900 – -50/750 – 2 – C 2 – 0 – 49 – 060 – 6

Series 900
Temperature range ..... -50 °F to 750 °F
Accuracy ..... ±0.06% (±0.15 °C) at 0 °C, Class A
Element type ..... PT100 Ω at 0 °C
Circuit type ..... Single, 3-wire
Process connection ..... None
Electrical connection ..... 3-pin RTD plug
Stem length ..... 6"
Stem diameter ..... 6 mm

1/2" Conduit With Cable | **M12 x 1 (5-pin)** | **Integral Cable 36"** | **1/2" NPT w/Flying Leads** | **RTD Plug**

