

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

APPLICATIONS

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

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), $\alpha=0.00385$ 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)

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"	

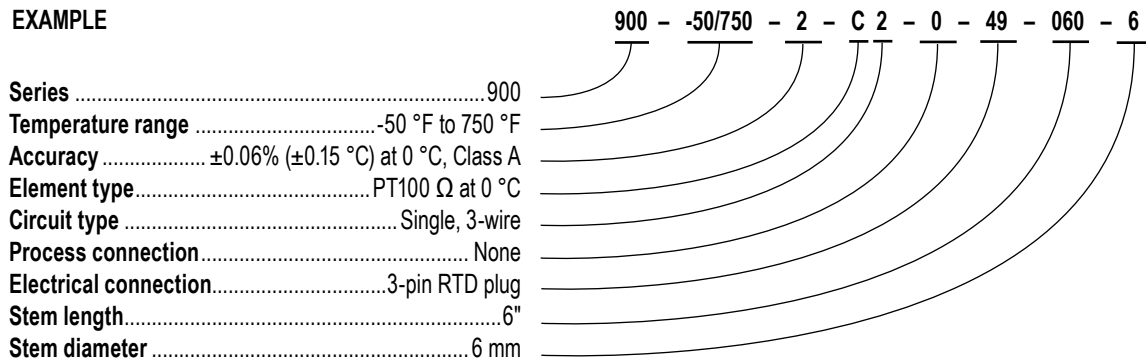
Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

* 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



1/2" Conduit With Cable

M12 x 1 (5-pin)

Integral Cable 36"

1/2" NPT w/Flying Leads

RTD Plug

