



910/915 SERIES

- Standard head-type RTD assembly
- A variety of head types are available
- Factory Mutual and Canadian Standards approved explosion proof models available
- Transmitter available, fits standard heads
- Probe welded to fitting or spring loaded
- If used in conjunction with a thermowell, probe can be replaced in some models without possibility for leakage
- Process fitting 1/2" NPT standard, others available
- RTD PT100 Ω standard, others available
- 2, 3 or 4-wire circuit types
- Isolation to 500 Vdc

APPLICATIONS

- Industrial boilers
- Petrochemical
- Exhaust gas monitoring
- Food processing

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
Environmental protection	A1/A2: NEMA 4 P1 & S1/S2: NEMA 4X
Transition	Sheath to wire transition max. temperature 266 °F (130 °C)

Thermowells are recommended for pressure, corrosive fluids and high velocity applications, see pages 36-37.

ORDERING INFORMATION			
SERIES	910 Fixed RTD	915 Spring-loaded RTD	
TEMPERATURE RANGES	-50/400 -50 °F to 400 °F -50/750 -50 °F to 750 °F	-330/1100 -330 °F to 1,100 °F	
ACCURACIES	1 $\pm 0.12\%$ (± 0.3 °C) at 0 °C, Class B 2 $\pm 0.06\%$ (± 0.15 °C) at 0 °C, Class A	3 $\pm 0.04\%$ (± 0.1 °C) at 0 °C, Class AA	
ELEMENT TYPES	C PT100 Ω at 0 °C	M PT1000 Ω at 0 °C	
CIRCUIT TYPES	1 Single, 2-wire 2 Single, 3-wire	3 Single, 4-wire 4 Dual, 2-wire	5 Dual, 3-wire 6 Dual, 4-wire
OPTIONAL TRANSMITTER/ OUTPUT	1U 4 mA to 20 mA, 2-wire, upscale burnout 1D 4 mA to 20 mA, 2-wire, downscale burnout 2 0 Vdc to 5 Vdc, 3-wire	3 1 Vdc to 5 Vdc, 3-wire 5 0 Vdc to 10 Vdc, 3-wire	
PROCESS CONNECTIONS	0 None 2 1/4" NPT Male	8 1/2" NPT Male	
ELECTRICAL CONNECTIONS	23 Connection head w/ 1/2" NPT conduit	45 Connection head with 3/4" NPT conduit	
ELECTRICAL CONNECTION MATERIALS	A1 Aluminum cast A2 Aluminum cast, explosion proof*	P1 PP, white S1 Stainless steel cast	S2 Stainless steel cast, explosion proof*
STEM LENGTHS	025 2.5" 040 4" 060 6"	090 9" 120 12" 150 15"	180 18" 240 24"
STEM DIAMETERS	1 1/8" 2 1/4"	3 3/8" 4 1/2"	6 6 mm

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

* Factory Mutual and Canadian Standards approved explosion proof Class I, Division I, Groups B, C and D; Class II, Division I, Groups E, F and G

EXAMPLE

Series	910
Temperature range	-330 °F to 1,100 °F
Accuracy	$\pm 0.12\%$ (± 0.3 °C) at 0 °C, Class B
Element type	PT1000 Ω at 0 °C
Circuit type	Dual, 2-wire
Process connection	1/2" NPT Male
Electrical connection	Connection head w/1/2" NPT conduit
Electrical connection material	Stainless steel cast
Stem length	12"
Stem diameter	3/8"

