Industrial RTD, Probe Type with Connection Head

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

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

APPLICATIONS

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

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

ORDERING INFORMATION						
SERIES	**910**	Fixed RTD	**915**	Spring-loaded RTD		
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
OPTIONAL TRANSMITTER/ OUTPUT	**1U**	4 mA to 20 mA, 2-wire, upscale burnout	**3**	1 Vdc to 5 Vdc, 3-wire		
	1D	4 mA to 20 mA, 2-wire, downscale burnout	**5**	0 Vdc to 10 Vdc, 3-wire		
	2	0 Vdc to 5 Vdc, 3-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				
ELECTRICAL CONNECTIONS	**23**	Connection head w/ 1/2" NPT conduit	**45**	Connection head with 3/4" NPT conduit		
ELECTRICAL CONNECTION MATERIALS	**A1**	Aluminum cast	**P1**	PP, white	**S2**	Stainless Steel cast, explosion proof*
	A2	Aluminum cast, explosion proof*	**S1**	Stainless Steel cast		
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.

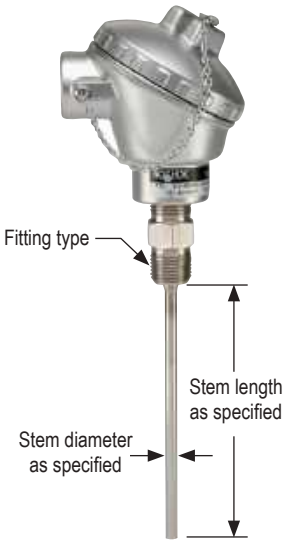
* Factory Mutual and Canadian Standards approved explosion proof Class I, Division I, Groups B, C and D; Class II, Division I, Groups E, F and G

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

EXAMPLE

910 – -330/1100 – 1 – M 4 – 8 – 23 S1 – 120 – 3

Series 910
Temperature range ..... -330 °F to 1,100 °F
Accuracy ..... ±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"



Aluminum Cast (A1/A2) — NEMA 4

Polypropylene (P1) — NEMA 4X

Stainless Steel Cast (S1/S2) — NEMA 4X