Industrial RTD, Probe Type with Connection Head



Select Connection Heads
Available with CSA/FM Approvals

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.

⚠ **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

Adaptive Industrial Solutions | sales@adaptiveind.com | (877) 818-5009

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.

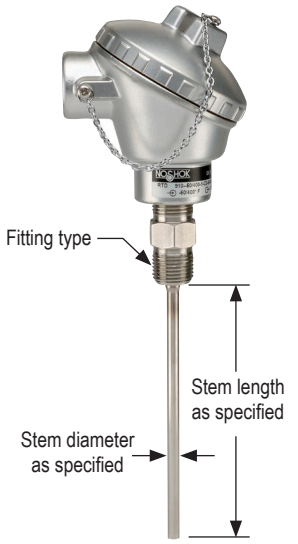
* Factory Mutual and Canadian Standards approved explosion proof Class I, Division I, Groups B, C and D; Class II, Division I, Groups E, F and G

** 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)	Polypropylene (P1)	Stainless Steel Cast (S1/S2)
NEMA 4	NEMA 4X	NEMA 4X

