



## 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  $\Omega$  standard, others available
- 2, 3 or 4-wire circuit types
- Isolation to 500 Vdc

### APPLICATIONS

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

### SPECIFICATIONS

<b>Temperature ranges</b>	-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)
<b>Sheath material</b>	316 Stainless Steel
<b>Finish (standard)</b>	32 micro-inches maximum
<b>Pressure rating</b>	500 psi (34.5 bar), tube only
<b>RTD element</b>	PT100 $\Omega$ @ 32 °F (0 °C), $\alpha=0.00385$ IEC 751
<b>Lead wires</b>	Stranded 22 AWG standard, PVC or PTFE insulation
<b>Self-heating</b>	50 mW / °C typical in moving water
<b>Insulation resistance</b>	Single element probes: 100 mega $\Omega$ /min. at 500 Vdc, leads to case Dual element probes: 100 mega $\Omega$ /min. at 100 Vdc, between element and leads to case
<b>Environmental protection</b>	A1/A2: NEMA 4 P1 & S1/S2: NEMA 4X
<b>Transition</b>	Sheath to wire transition max. temperature 266 °F (130 °C)



**WARNING:** This product can expose you to chemicals including Chromium (VI) 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](http://www.P65Warnings.ca.gov)

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

ORDERING INFORMATION			
<b>SERIES</b>	<b>910</b> Fixed RTD	<b>915</b> Spring-loaded RTD	
<b>TEMPERATURE RANGES</b>	<b>-50/400</b> -50 °F to 400 °F <b>-50/750</b> -50 °F to 750 °F	<b>-330/1100</b> -330 °F to 1,100 °F	
<b>ACCURACIES</b>	<b>1</b> ±0.12% (±0.3 °C) at 0 °C, Class B <b>2</b> ±0.06% (±0.15 °C) at 0 °C, Class A	<b>3</b> ±0.04% (±0.1 °C) at 0 °C, Class AA	
<b>ELEMENT TYPES</b>	<b>C</b> PT100 Ω at 0 °C	<b>M</b> PT1000 Ω at 0 °C	
<b>CIRCUIT TYPES</b>	<b>1</b> Single, 2-wire <b>2</b> Single, 3-wire	<b>3</b> Single, 4-wire <b>4</b> Dual, 2-wire	<b>5</b> Dual, 3-wire <b>6</b> Dual, 4-wire
<b>OPTIONAL TRANSMITTER/ OUTPUT</b>	<b>1U</b> 4 mA to 20 mA, 2-wire, upscale burnout <b>1D</b> 4 mA to 20 mA, 2-wire, downscale burnout <b>2</b> 0 Vdc to 5 Vdc, 3-wire	<b>3</b> 1 Vdc to 5 Vdc, 3-wire <b>5</b> 0 Vdc to 10 Vdc, 3-wire	
<b>PROCESS CONNECTIONS</b>	<b>0</b> None <b>1</b> 1/8" NPT Male <b>2</b> 1/4" NPT Male	<b>8</b> 1/2" NPT Male <b>48</b> 1/2" NPT Male w/sliding compression fitting **	
<b>ELECTRICAL CONNECTIONS</b>	<b>23</b> Connection head w/ 1/2" NPT conduit	<b>45</b> Connection head with 3/4" NPT conduit	
<b>ELECTRICAL CONNECTION MATERIALS</b>	<b>A1</b> Aluminum cast <b>A2</b> Aluminum cast, explosion proof*	<b>P1</b> PP, white <b>S1</b> Stainless Steel cast	<b>S2</b> Stainless Steel cast, explosion proof*
<b>STEM LENGTHS</b>	<b>025</b> 2.5" <b>040</b> 4" <b>060</b> 6"	<b>090</b> 9" <b>120</b> 12" <b>150</b> 15"	<b>180</b> 18" <b>240</b> 24"
<b>STEM DIAMETERS</b>	<b>1</b> 1/8" <b>2</b> 1/4"	<b>3</b> 3/8" <b>4</b> 1/2"	<b>6</b> 6 mm

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

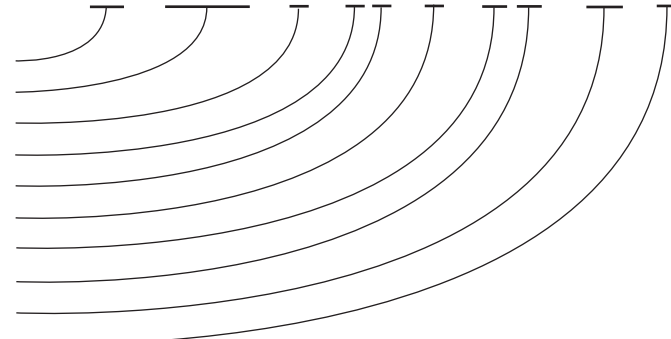
\* Factory Mutual and Canadian Standards approved explosion proof Class I, Division I, Groups B, C and D; Class II, Division I, Groups E, F and G

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

**EXAMPLE**

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"

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



**Aluminum Cast (A1/A2)**

**Polypropylene (P1)**

**Stainless Steel Cast (S1/S2)**

