



Nickel RTD R2 Enclosure (Aries)

Room with Setpoint



Room



Room, Setpoint, Override



Room, Override



Room (Infinity)



Room, Setpoint



Room, Override



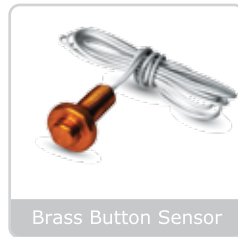
Room, Setpoint, Override



Stainless Plate



Stainless Plate, Override



Brass Button Sensor



Stainless Button Sensor



Plastic Button Sensor

Nickel RTDs

Wall Mounting

ACI offers a comprehensive list of wall mounting configurations for Nickel RTDs (see list above). These sensors provide a predictable and accurate output over the specified temperature range. Each sensor configuration is designed and manufactured for long-term quality and performance. The most prominent of the series is the R2 wall mount enclosure which features a sleek and modern design. The ACI Button Series is an unobtrusive option for unique applications.

The ACI Nickel RTD Series is covered by ACI's Five (5) year limited warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's web site, www.workaci.com.



Specifications

Operating Temperature Range	32 to 122°F (4.4 to 50°C)
Operating Humidity Range	0 to 90% RH non-condensing
Temperature Coefficient	0.00527 Ohm/Ohm/°C
PBS Housing Material	ABS Compound (low smoke)

Tolerance	T<0°C (32°F): +/-0.4 + 0.028 *T (°C)
Tolerance	T>0°C (32°F): +/-0.4 + 0.007 *T (°C)
Setpoint Tolerance	+/- 10% of the range
Product Dimensions	Please reference pages 7 & 8

Ordering

The Sensor Series is A/1K-NI. Please complete the Part Number by selecting one Enclosure (either Aries or Infinity) (A), & one Communication Jack (B). When selecting your Configuration (A) if "R2S", "RS", "RSO" or "R2SO" please choose a Pot Value (C), an Offset Resistor (D), Sticker (E) & a Pot Action (F). If "R2S", "RS", "RSO" or "R2SO" is not selected, your Part Number is finished after completing Communication (B). If a Stainless Plate or Button Sensor (1), (2) is desired, please add a Stainless Plate (SP), Brass Button Sensor (BBS), Stainless Button Sensor (SBS), or a Plastic Button Sensor (PBS) to the separate Part Number below. **NOTE:** Sections (C) through (F) are for internal references and will not be displayed in your final part number.

A Aries Enclosure		Infinity Enclosure		B Communication	
<input type="radio"/> R2 (Room)	<input type="radio"/> R (Room)	<input type="radio"/> R2S (Room, Setpoint)	<input type="radio"/> RS (Room, Setpoint)	<input type="radio"/> RJ4 (4 Pin/Conductor)	<input type="radio"/> RJ6 (6 Pin/Conductor)
<input type="radio"/> R2O (Room, Override)	<input type="radio"/> RO (Room, Override)	<input type="radio"/> R2SO (Room, Setpoint, Override)	<input type="radio"/> RSO (Room, Setpoint, Override)	<input type="radio"/> RS232 (Stereo Jack)	<input type="radio"/> ---- (No Jack)

C Pot Value		D Offset Resistor			E Sticker		F Pot Action	
<input type="radio"/> 400	<input type="radio"/> 8.5	<input type="radio"/> 0Ω (Default)	<input type="radio"/> 1KΩ	<input type="radio"/> 7.32K	<input type="radio"/> Blue/Red	<input type="radio"/> DA (Direct)	<input type="radio"/> RA (Reverse)	
<input type="radio"/> 1K	<input type="radio"/> 10K	<input type="radio"/> 499Ω	<input type="radio"/> 2KΩ	<input type="radio"/> 8.25K	<input type="radio"/> Cool/Warm			
<input type="radio"/> 2K	<input type="radio"/> 20K	<input type="radio"/> 806Ω	<input type="radio"/> 4.99K	<input type="radio"/> 10K	<input type="radio"/> 55 to 85°F			
<input type="radio"/> 5K	<input type="radio"/> 100K	<input type="radio"/> 910Ω	<input type="radio"/> 6.19K	<input type="radio"/> 20K	<input type="radio"/> 10 to 30°C			

1 Additional Configurations

<input type="radio"/> SP (Stainless Plate)	<input type="radio"/> BBS (Brass Button Sensor)	<input type="radio"/> PBS (Plastic Button Sensor)
<input type="radio"/> SP-OR (Stainless Plate, Override)	<input type="radio"/> SBS (Stainless Button Sensor)	

Build your part number

After completing (A), (B), (C), (D), (E) & (F) from the above table, fill in the "Part Number Table" below. The "Sensor Series" is a factory default. (1) is an additional configuration. An "example" part number is offered.

A/1K-NI — — — — —

Sensor Series	A	B	C	D	E	F
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EXAMPLE: A/1K-NI - R2 - RJ4

A/1K-NI —

Sensor Series	1
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EXAMPLE: A/1K-NI - BBS



The R2 & R enclosures have a UL94-HB flammability rating.