



R2 Enclosure

Room with Setpoint & Override



Room



Room, Setpoint



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

# THERMISTORS

## Wall Mounting

ACI offers a comprehensive list of wall mounting configurations for Thermistors (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. ACI wall mount enclosures offer the option of having a customized logo. Certain minimums, special part numbers, and specific artwork file types may be required. Please contact ACI for further details regarding custom labels. The ACI Button Series is an unobtrusive option for unique applications. This series is offered in brass, stainless steel, and plastic to blend into a wide array of decors.

The ACI Thermistor 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](http://www.workaci.com).





**SPECIFICATIONS**

<b>Accuracy (0-70°C)</b>	Single Point: +/-0.2°C (+/-0.36°F)	<b>Sensor Output [A/10KS]</b>	10KΩ @77°F (25°C)
<b>Stability</b>	+/-0.13°C (+/-0.23°F)	<b>Sensor Output [A/2252]</b>	2252Ω @77°F (25°C)
<b>Interchangeability</b>	+/-0.2°C (+/-0.36°F)	<b>Sensor Output [A/CSI]</b>	10KΩ @77°F (25°C)
<b>Operating Temperature Range</b>	32 to 122°F (0 to 50°C)	<b>Sensor Output [A/AN-BC]</b>	10KΩ with 11K Shunt
<b>PBS Housing Material</b>	ABS Compound (low smoke)	<b>Sensor Output [A/10KE]</b>	10KΩ @77°F (25°C)
<b>Sensor Output [A/AN]</b>	10KΩ @ 77°F (Type III)	<b>Sensor Output [A/10KE1]</b>	10KΩ @77°F (25°C)
<b>Sensor Output [A/CP]</b>	10KΩ @ 77°F (Type II)	<b>Setpoint Tolerance</b>	+/- 10% of the range
<b>Sensor Output [A/3K]</b>	3KΩ @77°F (25°C)	<b>Power Dissipation Constant</b>	3 mW/°C
<b>Sensor Output [A/1.8K]</b>	1.8KΩ @77°F (25°C)	<b>Operating Humidity Range</b>	0 to 90% RH non-condensing
<b>Sensor Output [A/20K]</b>	20KΩ @77°F (25°C)	<b>Product Dimensions</b>	Please reference pages 7 & 8
<b>Sensor Output [A/100KS]</b>	100KΩ @77°F (25°C)		

**ORDERING**

Select one Series (A), one Enclosure (either Aries or Infinity) (B), & one Communication Jack (C). When selecting your Configuration (B) if "R2S", "RS", "RSO" or "R2SO" please choose a Pot Value (D), an Offset Resistor (E), Sticker (F) & a Pot Action (G). If "R2S", "RS", "RSO" or "R2SO" is not selected, your Part Number is finished after completing Communication (C). If a Stainless Plate or Button Sensor (1) 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 (D) through (G) are for internal references and will not be displayed in your final part number. \*Regarding the Sensor Series (1) and Additional Configuration (2), the A/10KS and A/AN-BC are not available as PBS.

A Room Sensor Series		B Aries Enclosure		Infinity Enclosure		C Communication	
<input type="radio"/> A/AN (Type III)	<input type="radio"/> A/20K	<input type="radio"/> A/CSI	<input type="radio"/> R2 (Room)	<input type="radio"/> R (Room)	<input type="radio"/> R (Room)	<input type="radio"/> RJ4 (4 Pin/Conductor)	<input type="radio"/> RJ6 (6 Pin/Conductor)
<input type="radio"/> A/CP (Type II)	<input type="radio"/> A/100KS	<input type="radio"/> A/AN-BC	<input type="radio"/> R2S (Room, Setpoint)	<input type="radio"/> RS (Room, Setpoint)	<input type="radio"/> RS (Room, Setpoint)	<input type="radio"/> RS232 (Stereo Jack)	<input type="radio"/> RS232 (Stereo Jack)
<input type="radio"/> A/3K	<input type="radio"/> A/10KS	<input type="radio"/> A/10KE	<input type="radio"/> R2O (Room, Override)	<input type="radio"/> RO (Room, Override)	<input type="radio"/> RO (Room, Override)	<input type="radio"/> ---- (No Jack)	
<input type="radio"/> A/1.8K	<input type="radio"/> A/2252	<input type="radio"/> A/10KE1	<input type="radio"/> R2SO (Room, Setpoint, Override)	<input type="radio"/> RSO (Room, Setpoint, Override)	<input type="radio"/> RSO (Room, Setpoint, Override)		

D Pot Value		E Offset Resistor		F Sticker		G Pot Action	
<input type="radio"/> 400	<input type="radio"/> 8.5K	<input type="radio"/> 0Ω (Default)	<input type="radio"/> 1KΩ	<input type="radio"/> 7.32K	<input type="radio"/> Blue/Red (R2 Only)	<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 Sensor Series			2 Additional Configuration		
<input type="radio"/> A/AN	<input type="radio"/> A/20K	<input type="radio"/> A/CSI	<input type="radio"/> SP (Stainless Plate)	<input type="radio"/> BBS (Brass Button Sensor)	<input type="radio"/> PBS* (Plastic Button Sensor)
<input type="radio"/> A/CP	<input type="radio"/> A/100KS	<input type="radio"/> A/AN-BC*	<input type="radio"/> SP-OR (Stainless Plate, Override)	<input type="radio"/> SBS (Stainless Button Sensor)	
<input type="radio"/> A/3K	<input type="radio"/> A/10KS*	<input type="radio"/> A/10KE			
<input type="radio"/> A/1.8K	<input type="radio"/> A/2252	<input type="radio"/> A/10KE1			

**BUILD PART NUMBER**

After completing (A), (B), (C), (D), (E), (F) & (G) from the above table, fill in the "Part Number Table" below. (1) & (2) are additional configurations. An "example" part number is offered.

A	B	C	D	E	F	G	

EXAMPLE: A/AN - R2 - RJ6

1	2

EXAMPLE: A/AN - SP

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

