
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.

SPECIFICATIONS

Accuracy (0-70ºC)	Single Point: +/-0.2ºC (+/-0.36ºF)
Stability	+/-0.13ºC (+/-0.23ºF)
Interchangeability	+/-0.2ºC (+/-0.36ºF)
Operating Temperature Range	32 to 122ºF (0 to 50ºC)
PBS Housing Material	ABS Compound (low smoke)
Sensor Output [A/AN]	10KΩ @ 77ºF (Type III)
Sensor Output [A/CP]	10KΩ @ 77ºF (Type II)
Sensor Output [A/3K]	3KΩ @77ºF (25ºC)
Sensor Output [A/1.8K]	1.8KΩ @77ºF (25ºC)
Sensor Output [A/20K]	20KΩ @77ºF (25ºC)
Sensor Output [A/100KS]	100KΩ @77ºF (25ºC)
Sensor Output [A/10KS]	10KΩ @77ºF (25ºC)
Sensor Output [A/2252]	2252Ω @77ºF (25ºC)
Sensor Output [A/CSI]	10KΩ @77ºF (25ºC)
Sensor Output [A/AN-BC]	10KΩ with 11K Shunt
Sensor Output [A/10K-E]	10KΩ @77ºF (25ºC)
Sensor Output [A/10K-E1]	10KΩ @77ºF (25ºC)
Setpoint Tolerance	+/- 10% of the range
Power Dissipation Constant	3 mW/ºC
Operating Humidity Range	0 to 90% RH non-condensing
Product Dimensions	Please reference pages 7 & 8

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 avilable as PBS.

A Room Sensor Series

- ○ **A/AN** (Type III)
- ○ **A/CP** (Type II)
- ○ **A/3K**
- ○ **A/1.8K**
- ○ **A/20K**
- ○ **A/100KS**
- ○ **A/10KS**
- ○ **A/2252**
- ○ **A/CSI**
- ○ **A/AN-BC**
- ○ **A/10K-E**
- ○ **A/10K-E1**

B Aries Enclosure

- ○ **R2** (Room)
- ○ **R2S** (Room, Setpoint)
- ○ **R2O** (Room, Override)
- ○ **R2SO** (Room, Setpoint, Override)

Infinity Enclosure

- ○ **R** (Room)
- ○ **RS** (Room, Setpoint)
- ○ **RO** (Room, Override)
- ○ **RSO** (Room, Setpoint, Override)

C Communication

- ○ **RJ4** (4 Pin/Conductor)
- ○ **RJ6** (6 Pin/Conductor)
- ○ **RS232** (Stereo Jack)
- ○ **----** (No Jack)

D Pot Value

- ○ **400**
- ○ **1K**
- ○ **2K**
- ○ **5K**
- ○ **8.5K**
- ○ **10K**
- ○ **20K**
- ○ **100K**

E Offset Resistor

- ○ **0Ω (Default)**
- ○ **499Ω**
- ○ **806Ω**
- ○ **910Ω**
- ○ **1KΩ**
- ○ **2KΩ**
- ○ **4.99K**
- ○ **6.19K**
- ○ **7.32K**
- ○ **8.25K**
- ○ **10K**
- ○ **20K**

F Sticker

- ○ **Blue/Red** (R2 Only)
- ○ **Cool/Warm**
- ○ **55 to 85°F**
- ○ **10 to 30°C**

G Pot Action

- ○ **DA** (Direct)
- ○ **RA** (Reverse)

1 Sensor Series

- ○ **A/AN**
- ○ **A/CP**
- ○ **A/3K**
- ○ **A/1.8K**
- ○ **A/20K**
- ○ **A/100KS**
- ○ **A/10KS***
- ○ **A/2252**
- ○ **A/CSI**
- ○ **A/AN-BC***
- ○ **A/10KE**
- ○ **A/10KE1**

2 Additional Configuration

- ○ **SP** (Stainless Plate)
- ○ **SP-OR** (Stainless Plate, Override)
- ○ **BBS** (Brass Button Sensor)
- ○ **SBS** (Stainless Button Sensor)
- ○ **PBS*** (Plastic Button Sensor

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.