



Automation Components, Inc.

# SEMICONDUCTOR

Wall Mount

Great airflow

Sleek, modern design

Customizable logo option



Product shown: ACI's Standard Room Enclosure



## SEMICONDUCTOR

ACI offers a comprehensive list of room mounting configurations (see list above). The most prominent of the series is the R2 (Aries) wall mount enclosure which features a sleek and modern design. ACI still offers the original version (Infinity) for replacements and retrofits. The ACI Button Series is an unobtrusive option for unique applications.

The A/592 Series semiconductor type temperature sensors provide accurate temperature measurement and control. The A/592-10K uses a precision 10K (0.1%) resistor to convert the current output to a three-wire output. These units are calibrated using a NIST traceable thermometer to ensure the highest possible accuracy.

The ACI /592 Series is covered by ACI's Five (5) year limited warranty, which is located in the front of ACI's Sensors & Transmitters catalog or can be found on ACI's web site, which is [www.workaci.com](http://www.workaci.com).

H: 4.50" W: 2.75" D: 1.12"

CONFIGURATION	
Part #	Configuration
R2	Room
R2S	Room with Setpoint
R2O	Room with Override
R2SO	Room with Setpoint & Override
SP	Stainless Plate
BBS	Brass Button Sensor
SBS	Stainless Button Sensor

SENSOR OUTPUTS	
Part #	Output
A/592	248 to 378 uA
A/592-10K	2.49 to 3.78VDC



Made in the U.S.A.

## SPECIFICATIONS

Supply Voltage	+4 to 30 VDC
Temperature Coefficient	A/592 - 1 uA/°C (0.556 uA/°F)
Temperature Coefficient	A/592-10K - 10 mV/C (5.556 mV/°F)
Accuracy	+/- 1.26°F @ 77°F (+/- 0.70°C @ 25°C)
Repeatability	+/-0.18°F (+/- 0.10°C)
Linearity	+/-0.27°F max from 32 to 158°F
Operating Temperature Range	-13 to 221°F (-25 to 105°C)
Offset	+/- 4°F max (+/- 2.2°C max)

## ORDERING (Room Sensors)

**BUILD YOUR PART#**

EXAMPLE

A/592 - R2 - RJ6 - --- - --- - ---

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A B C D E F

### STEP 1

A SENSOR SERIES	B CONFIGURATION	C COMMUNICATION
A/592	( R2 ) Room	( RJ4 ) 4 Pin/Conductor
A/592-10K	( R2S ) Room w/ Setpoint	( RJ6 ) 6 Pin/Conductor
	( R2O ) Room w/ Override	( RS232 ) Stereo Jack
	( R2SO ) Room w/ Setpoint, Override	( ---- ) None
	( R ) *Room	
	( RS ) *Room w/ Setpoint	
	( RO ) *Room w/ Override	
	( RSO ) *Room w/ Setpoint, Override	
	*Previous Enclosure Design	

Select sensor series, configuration and communication (if needed).

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



### STEP 2

D POT VALUE*	E STICKER	F POT ACTION
( 400 ) ( 8.5 )	Blue Red	( DA ) Direct
( 1K ) ( 10K )	Cool Warm	( RA ) Reverse
( 2K ) ( 20K )	55 85	
( 5K ) ( 100K )	10 30C	

If a (R2S) or (R2SO) was selected, choose a pot value, sticker and a pot action.

\*Offset resistors are available, please inquire.

## ORDERING (Stainless Plate or Button Sensors)

**BUILD YOUR PART#**

EXAMPLE

A/592 - SP

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A B

### STEP 1

A SENSOR SERIES	B CONFIGURATION
A/592	( SP ) Stainless Plate
A/592-10K	( BBS ) Brass Button Sensor
	( SBS ) Stainless Button Sensor

Select sensor series and configuration.

