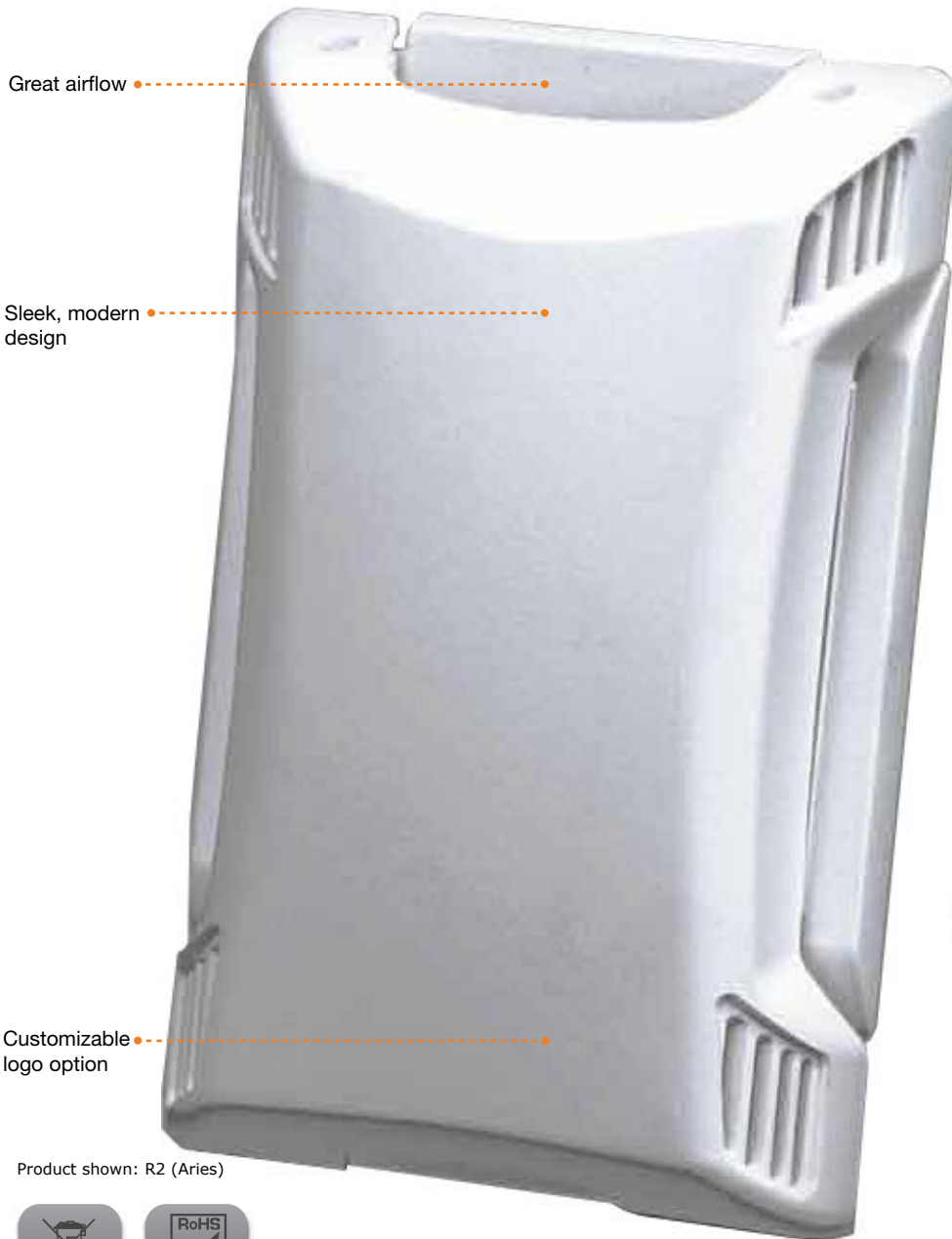


SEMICONDUCTOR



Great airflow

Sleek, modern design

Customizable logo option

Product shown: R2 (Aries)



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
I-592	248 to 378 uA
I-592-10K	2.49 to 3.78VDC

SEMICONDUCTOR

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

The I-592 Series semiconductor type temperature sensors provide accurate temperature measurement and control. The I-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.



Made in the U.S.A.

SPECIFICATIONS

Supply Voltage	+4 to 30 VDC
Temperature Coefficient	I-592 - 1 uA/°C (0.556 uA/°F)
Temperature Coefficient	I-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

I-592 - R2 - RJ6 - - - - - - - - - -

A B C D E F

STEP 1	A	SENSOR SERIES	B	CONFIGURATION	C	COMMUNICATION
Select sensor series, configuration and communication (if needed). The R2 & R enclosures have a UL94-HB flammability rating.	I-592	(R2)	Room	(RJ4)	4 Pin/Conductor	
	I-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				



STEP 2	D	POT VALUE*	E	STICKER	F	POT ACTION
If a (R2S) or (R2SO) was selected, choose a pot value, sticker and a pot action.	(400)	(8.5)	Blue	Red	(DA)	Direct
	(1K)	(10K)	Cool	Warm	(RA)	Reverse
	(2K)	(20K)	55	85		
	(5K)	(100K)	10	30C		

*Offset resistors are available, please inquire.

ORDERING (Stainless Plate or Button Sensors)

BUILD YOUR PART#

EXAMPLE

I-592 - - - - - - - - - - SP

A B

STEP 1	A	SENSOR SERIES	B	CONFIGURATION
Select sensor series and configuration.	I-592	(SP)	Stainless Plate	
	I-592-10K	(BBS)	Brass Button Sensor	
		(SBS)	Stainless Button Sensor	

