

TEMPERATURE

BAPI BAS TEMPERATURE SENSORS BA/ ROOM SERIES



DESCRIPTION

The **BA Series Room Sensors** are designed specifically for HVAC systems. The room sensors come in a variety of enclosure styles, including Delta, Precon, stainless steel plate, and BAPIstat II. This series is available with thermistor, RTD, and semiconductor sensors, which makes the BA sensors compatible with every BAS system in use today.

FEATURES

- $\pm 0.36^{\circ}\text{F}$ ($\pm 0.2^{\circ}\text{C}$) thermistor accuracy
- $\pm 0.27^{\circ}\text{F}$ ($\pm 0.15^{\circ}\text{C}$) or $\pm 0.54^{\circ}\text{F}$ ($\pm 0.30^{\circ}\text{C}$) RTD accuracy
- $\pm 2.7^{\circ}\text{F}$ ($\pm 1.5^{\circ}\text{C}$) semiconductor accuracy
- Lifetime limited sensor warranty
- Wide selection of thermistor, RTD, and semiconductor curves
- Wide selection of enclosure designs



BA/*-B

BA/*-B-84LG-N

BA/*-RSZ

BA/*-RSZ-BM5090



BA/*-R

BA/*-R-84LG-N-BM5090

BA/*-SP

BA/*-SP-C40-02-N

SPECIFICATIONS

Accuracy		Heat dissipation	
Thermistor	$\pm 0.36^{\circ}\text{F}$ (0.2°C)	Thermistor, 2.7 mW/ $^{\circ}\text{C}$ (power needed to raise the temperature by 1°C)	
RTD (.385)	$\pm 0.27^{\circ}\text{F}$ ($\pm 0.15^{\circ}\text{C}$)	Connections	
RTD (.375)	$\pm 0.54^{\circ}\text{F}$ ($\pm 0.30^{\circ}\text{C}$)	Enclosures use terminals	
Semiconductor (SC)	$\pm 2.7^{\circ}\text{F}$ (1.5°C)	Flush plates use 22 AWG leads	
Sensor types		Enclosure	
Thermistor @ 77°F	10 k Ω ; Type 2, 10 k Ω ; Type 3	ABS plastic, UL94V-0,	
RTD @ 32°F (0°C)	100 Ω , 385 curve; 1000 Ω , 385 curve; 1000 Ω , 375 curve	SP = stainless=stainless steel	
SC, AD592 @ -25°C	247 μA	Weight	
Temperature range	32° to 122°F (0° to 50°C)	0.3 lb (0.135 kg)	
Stability		Warranty	
Thermistor	$< 1.8^{\circ}\text{F}$ (0.1°C) over five years	Lifetime (Sensor)	
RTD	$< \pm 0.1^{\circ}\text{C}$ drift		
Semiconductor	$\pm 0.1^{\circ}\text{C}$		

ORDERING INFORMATION

MODEL	DESCRIPTION
BA/	Room temperature sensor surface mount
SENSOR TYPE	
10K2	10,000 Ω thermistor @ 77°F (25°C), Type 2
10K3	10,000 Ω thermistor @ 77°F (25°C), Type 3
100	100 Ω RTD @ 32°F (0°C), 385 curve
1K8	1000 Ω RTD @ 32°F (0°C), 385 curve
1K7	1000 Ω RTD @ 32°F (0°C), 375 curve
592	AD592 semiconductor (each unit provided with error and offset data)
ROOM ENCLOSURE	
R	Delta style enclosure
B	BAPIstat II style enclosure
RSZ	Precon executive style enclosure
SP	Stainless steel plate style enclosure

BA/ — 10K3 — R Example: BA/10K3-R Delta room 10,000 Ω thermistor sensor

NOTE: Call Kele for additional temperature sensor options.