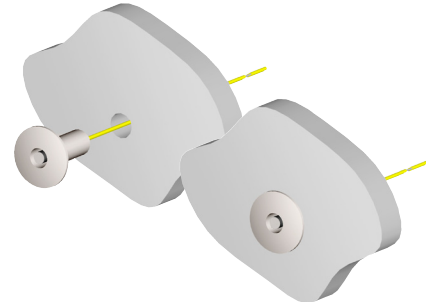


## Features & Options

- Small Flush Sensor Mounting
- Accurate Direct Air Measurement
- Paintable with Latex or Oil Base
- Wide Selection of Sensing Elements
- Plenum Rated Wiring
- Limited Lifetime Warranty



Low Profile  
Wall Sensor

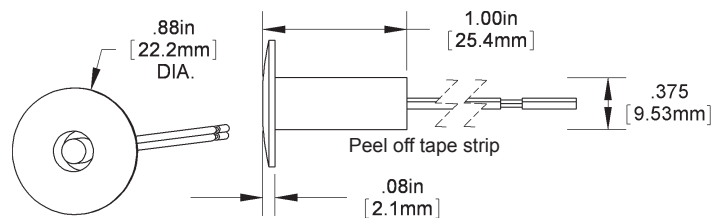


The Low Profile "Button" Sensor is ideal for locations where aesthetics are as important as the temperature measurement. The inconspicuous wall sensor mounts easily by pushing through a 3/8" hole and secured with a peel off tape strip. The only visible portion is a flush 7/8" dot on the wall. The Low Profile "Button" Sensor is available in multiple thermistor or RTD sensors as shown in the specifications. Other sensor types are available on request.

\* All Passive Thermistors 10K  $\Omega$  and smaller are CE compliant.

## Specifications

<b>Sensor</b> .....	Passive
Thermistor .....	NTC, 2 wire
RTD .....	PTC, 2 or 3 wire
<b>Thermistor</b> .....	Thermal resistor
Temp. Output .....	Resistance
Accuracy (Std) .....	$\pm 0.36^{\circ}\text{F}$ , ( $\pm 0.2^{\circ}\text{C}$ )
Accuracy (High) .....	$\pm 0.18^{\circ}\text{F}$ , ( $\pm 0.1^{\circ}\text{C}$ ), [XP] option
Stability .....	$< 0.036^{\circ}\text{F}/\text{Year}$ , ( $< 0.02^{\circ}\text{C}/\text{Year}$ )
Heat dissipation .....	2.7 mW/ $^{\circ}\text{C}$
Temp. Drift .....	$< 0.02^{\circ}\text{C}$ per year
Probe range .....	$-40^{\circ}$ to $221^{\circ}\text{F}$ ( $-40^{\circ}$ to $105^{\circ}\text{C}$ )
<b>RTD</b> .....	Resistance Temperature Device
Platinum (PT).....	100 $\Omega$ or 1K $\Omega$ @ $0^{\circ}\text{C}$ , 385 curve,
Platinum (PT).....	1K $\Omega$ @ $0^{\circ}\text{C}$ , 375 curve
PT Accuracy (Std)..	0.12% @Ref, or $\pm 0.55^{\circ}\text{F}$ , ( $\pm 0.3^{\circ}\text{C}$ )
PT Accuracy (Hi) ...	0.06% @Ref, or $\pm 0.277^{\circ}\text{F}$ , ( $\pm 0.15^{\circ}\text{C}$ ), [A] option
PT Stability .....	$\pm 0.25^{\circ}\text{F}$ , ( $\pm 0.14^{\circ}\text{C}$ )
PT Self Heating .....	0.4 $^{\circ}\text{C}/\text{mW}$ @ $0^{\circ}\text{C}$
PT Probe range .....	$-40^{\circ}$ to $221^{\circ}\text{F}$ , ( $-40$ to $105^{\circ}\text{C}$ )
Nickel (Ni) .....	1000 $\Omega$ @ $70^{\circ}\text{F}$ , JCI curve
Ni Probe range .....	$-40^{\circ}$ to $221^{\circ}\text{F}$ ( $-40$ to $105^{\circ}\text{C}$ )
<b>Sensitivity</b>	
Thermistor ...	Non-linear
	Go to <a href="http://bapihvac.com">bapihvac.com</a> "Sensor Specs"
RTD (PT) .....	3.85 $\Omega/^{\circ}\text{C}$ for 1K $\Omega$ RTD
	3.75 $\Omega/^{\circ}\text{C}$ for 1K $\Omega$ RTD
	0.385 $\Omega/^{\circ}\text{C}$ for 100 $\Omega$ RTD
Nickel (Ni) .....	2.95 $\Omega/^{\circ}\text{F}$ for the JCI RTD
<b>Lead wire:</b>	2 or 3 conductor, 22 AWG stranded wire



Low Profile "Button" Sensor

**Wire Insulation:** Etched Teflon, Plenum rated

**Wiring:** Two 22 AWG wires (non-polar)

**Mounting:** 3/8" hole, push in plastic sheath with peel off tape strip.

**Dimensions:** ..... Plastic Sheath  
Insertion..... 1.0" depth, into a 0.375" hole

Sleeve..... 0.375" Diameter

Bezel..... 0.875" Diameter

**Enclosure Type:** Round Flush Sensor Sheath

**Enclosure ratings:** NEMA 1

**Encl. Material:** White Delrin, UL94V-HB

**Ambient (Encl.)**

0 to 100% RH, Non-condensing

$-40^{\circ}\text{F}$  to  $185^{\circ}\text{F}$ , ( $-40^{\circ}$  to  $85^{\circ}\text{C}$ )

**Agency**

RoHS, CE\* (Thermistor's  $< 10\text{K}\Omega$ )

PT= DIN43760, IEC Pub 751-1983,

JIS C1604-1989



# Low Profile "Button" Sensor A23

*Temperature Sensors*

Rev. 08/31/10

Ordering Information    Low Profile "Button" Sensor - Temperature				List Price	Your Order	
<b>BA/</b>						
<b>#</b>	<b>Sensor Type</b>	<b>Use the designator number (shown to the left in bold) to indicate the sensor</b>				
		<b>THERMISTORS</b>	<b>RTDs</b>	<b>Thermistors</b>		
		<b>3K</b> 3K Ω @ 25 °C	<b>100</b> 100 Ω Platinum @ 0 °C, .385 Ω/°C temp. coeff.	<b>\$18 Each</b>	\$ _____	
		<b>3.3K</b> 3.3K Ω @ 25 °C	<b>100[3W]</b> 3 Wire 100 Ω Plat. @ 0 °C, .385 Ω/°C temp. coeff.			
		<b>10K-2</b> 10K Ω @ 25 °C	<b>1K[375]</b> 1K Ω Platinum @ 0 °C, 3.75 Ω/°C temp. coeff.	<b>RTD's</b>		
		<b>10K-3</b> 10K Ω @ 25 °C	<b>1K[Ni]</b> 1K Ω Nickel @ 21°C, 5 Ω/°C temp. coeff.	<b>\$25 Each</b>	\$ _____	
		<b>10K-3[11K]</b> 5,238 Ω @ 25 °C	<b>1K</b> 1K Ω Platinum @ 0 °C, 3.85 Ω/°C temp. coeff.	<b>or</b>		
		<b>20K</b> 20K Ω @ 25 °C	<b>2K</b> 2K Ω Silicon @ 20 °C, 8 Ω/°C temp. coeff.	<b>\$35 for 1K[Ni]</b>	\$ _____	
		<b>50K</b> 50K Ω @ 25 °C				
		<b>100K</b> 100K Ω @ 25 °C				
		<b>Wall Mount Fitting</b>				
	<b>-LP</b>	Low Profile Flush Mounting Sheath w/ 6" Teflon Leads			<b>\$7</b>	\$ _____
		<b>Custom Lead Length</b>				
		<b>-5</b>	5 feet of Plenum Rated Cable	<b>\$6</b>	\$ _____	
		<b>-10</b>	10 feet of Plenum Rated Cable	<b>\$8</b>	\$ _____	
		<b>-15</b>	15 feet of Plenum Rated Cable	<b>\$10.50</b>	\$ _____	
<b>EXAMPLE</b>						
<b>BA/</b>	<b>10K-2</b>	<b>-LP</b>				
Example Part Number: BA/10K-2-LP    Low Profile "Button" Sensor, 10K-2 thermistor				<b>Total =</b>	\$ _____	
<b>Your Part Number:</b>						

Call BAPI if you have questions about the above ordering grid or the configuration of the product you are ordering.