

# TEMPERATURE

## OSA TEMPERATURE SENSORS BA/ OSA SERIES



BA/1K375-O-BB2

### DESCRIPTION

The **BAPI BA Series OSA Thermistor and RTD Sensors** are designed specifically for HVAC systems to be mounted outdoors. The UV-resistant plastic shield keeps the sensor out of the sunlight and allows for excellent air circulation. They come in thermistor and RTD sensors and feature etched teflon leadwires to perform under real world conditions.

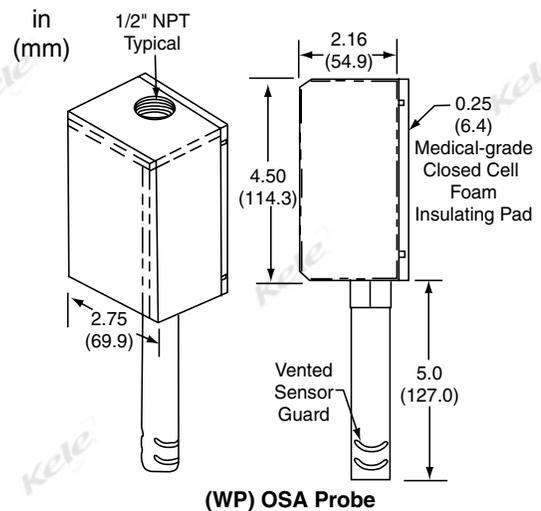
### FEATURES

- *Quick Response sensor*
- *Well ventilated, light colored sensor guard*
- *three watertight enclosure styles*
- *Lifetime limited sensor warranty*

### SPECIFICATIONS

<b>Accuracy</b>	
Thermistor	±0.36°F (0.2°C)
RTD	±0.55°F (0.30°C)
<b>Sensor Type</b>	
Thermistor	10kΩ Type II & III
RTD	100Ω, 1000Ω, 385 curve; 1000Ω, 375 curve
<b>Temperature Range</b>	
Stability	32° to 158°F (-0° to 70°C)
<b>Thermistor</b>	
Thermistor	< 0.036°F (0.02°C) per year
RTD	0.14 °C with 6,000 continuous hours at 400 °C
<b>Heat Dissipation</b>	
Thermistor	2.7 mW/°C (power need to raise the temperature 1°C)
RTD	0.4°C/mW at 0°C
<b>Enclosure Rating</b>	
WP	NEMA 3R, metal enclosure
BB	NEMA 4, weatherproof, UV-resistant plastic enclosure
BB2	NEMA 4, BAP-Box 2 IP66 rated, UV-resistant plastic enclosure
<b>Mounting</b>	
Directly to wall	
<b>Wiring Terminations</b>	
22 AWG wire, etched teflon leads	
<b>Weight</b>	
0.8 lb (0.36 Kg)	
<b>Approvals</b>	
CE, RoHS	
<b>Warranty</b>	
Lifetime	

### DIMENSIONS





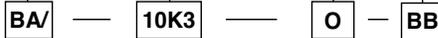
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#### ORDERING INFORMATION

MODEL	DESCRIPTION
BA/	Probe temperature sensor
<b>REQUIRED SENSOR TYPE</b>	
10K2	10,000Ω thermistor @ 77°F (25°C), Type 2
10K3	10,000Ω thermistor @ 77°F (25°C), Type 3
100	100Ω RTD @32°F (0°C), 385 curve
1K	1000Ω RTD @32°F (0°C), 385 curve
1K375	1000Ω RTD @32°F (0°C), 375 curve
<b>REQUIRED PROBE TYPE AND LENGTH</b>	
O	OSA probe 5" long
<b>REQUIRED MOUNTING ENCLOSURE</b>	
JB	2" x 4" J-box with 1/2" knockouts
BB	NEMA 4 weatherproof, UV resistant plastic
BB2	BAPI-Box 2 enclosure - IP66 rated, UV resistant polycarbonate
WP	NEMA 3R weatherproof enclosure



**Example:** BA/10K3-O-BB BAPI 5" OSA 10,000Ω thermistor sensor with NEMA 4 weatherproof enclosure

#### RELATED PRODUCTS

<b>T85U-XR</b>	1000 ohm, Type 85 4-20 mA temperature transmitter, custom rangeable
<b>T81U-XR</b>	100 ohm, Type 81 4-20 mA temperature transmitter, custom rangeable
<b>T91U-XR</b>	1000 ohm, Type 91 4-20 mA temperature transmitter, custom rangeable