

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.

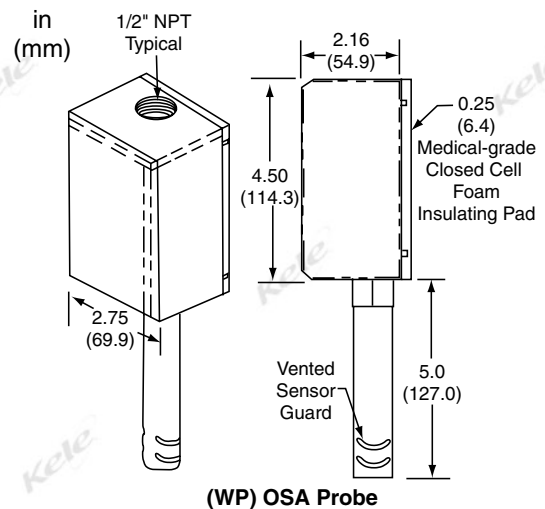
FEATURES

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

SPECIFICATIONS

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

DIMENSIONS





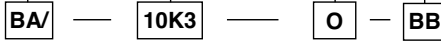
TEMPERATURE

OSA TEMPERATURE SENSORS

BA/ OSA SERIES

ORDERING INFORMATION

MODEL	DESCRIPTION
BA/	Probe temperature sensor
REQUIRED SENSOR TYPE	
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
REQUIRED PROBE TYPE AND LENGTH	
O	OSA probe 5" long
REQUIRED MOUNTING ENCLOSURE	
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

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