

TEMPERATURE

THERMOBUFFER TEMPERATURE SENSORS BA/*-TB SERIES



DESCRIPTION

The **BAPI BA Series Thermobuffer Sensors** are designed specifically for freezers and coolers to simulate the temperature of the contents and not the air temperature. The fluid-filled chamber allows for slower reaction to abrupt temperature changes from opening or closing the cooler door. The Thermobuffer helps eliminate spikes and short cycling of refrigeration equipment.

FEATURES

- *Fluid-filled to mimic core temperatures*
- *Decreases false high limit alarms*
- *Stainless steel or aluminum*
- *Use in frozen applications*
- *Wall Mount or wire shelf hanger*
- *Lower temperature ranges available*



BA/10K2TBM3042HB



BA/10K2TBM3044BB2



BA/10K2TBM3044BB



SPECIFICATIONS

Accuracy		HB	Remote probe with 30" cable and bracket
Thermistor	±0.36°F (0.2°C)	Enclosure Rating	
RTD	±0.55°F (0.30°C)	BB	NEMA 4, BAPI Box: IP66, UV- resisant polycarbonate
Sensor Type		BB2	NEMA 4, BAPI Box 2: IP66, UV- resisant polycarbonate
Thermistor	10kΩ, Type II & III	Mounting	Directly to wall or with hanging bracket
RTD	100Ω, 1000Ω 385 curve	Wiring Terminations	22 AWG wire, etched teflon leads
Temperature Range	-40° to 185°F (-40° to 85°C)	Weight	
Stability		HB	0.55 lb (0.25 Kg)
Thermistor	±0.036°F (0.02°C) per year	BB	0.8 lb (0.36 Kg)
RTD	0.14 °C with 6,000 continuous hours at 400 °C	BB2	0.8 lb (0.36 Kg)
Heat Dissipation	0.4°C/mW at 0°C, 2.7 mW/°C (power need to raise the temperature 1C)	Approvals	CE, RoHS
Chamber Fluid	Glycol (customer supplied)	Warranty	Lifetime

APPROXIMATE TIME DELAY IN MINUTES AND SECONDS

Sales Name	Description	Air	Veg. Oil	Glycol	Water
BA/*-TB-M304-1	1" SS buffer	6:59	13:30	16:08	18:48
BA/*-TB-M304-2	2" SS buffer	29:17	37:57	46:33	47:16
BA/*-TB-M304-4	4" SS buffer	41:10	50:24	65:37	69:14
BA/*-TB-MAL-2	2" Aluminum buffer	19:18	30:10	31:23	39:42
BA/*-TB-MAL-4	4" Aluminum buffer	30:32	40:14	52:00	53:09

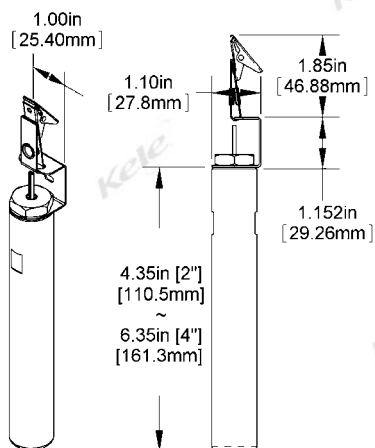


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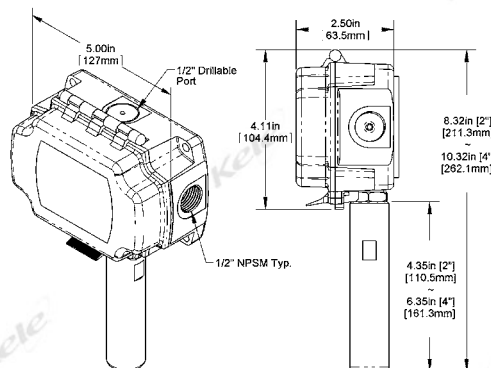
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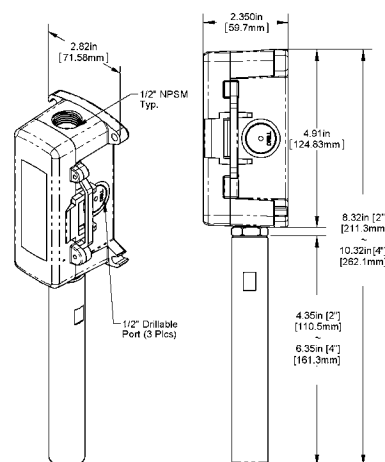
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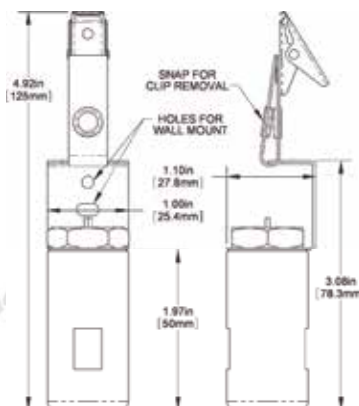
THERMAL-THERMOBUFFER



BB-THERMOBUFFER



BB2-THERMOBUFFER



THERMAL-THERMOBUFFER

ORDERING INFORMATION

MODEL	DESCRIPTION
BA/	Probe temperature sensor
REQUIRED SENSOR TYPE	
10K2	10,000Ω thermistor @ 77°F (25°C), Type II
10K3	10,000Ω thermistor @ 77°F (25°C), Type III
100	100Ω RTD @ 32°F (0°C), 385 curve
1K	1000Ω RTD @ 32°F (0°C), 385 curve
REQUIRED PROBE TYPE AND LENGTH	
TB-M3042	Thermobuffer probe 2" long, 304 stainless chamber
TB-M3044	Thermobuffer probe 4" long, 304 stainless chamber
TB-MAL2	Thermobuffer probe 2" long, aluminum chamber
TB-MAL4	Thermobuffer probe 4" long, aluminum chamber
HB	Hanging bracket with jacketed cable (30"); other lengths available
BB	BAPI box NEMA 4X
BB2	BAPI box 2 NEMA 4X

BA/ — 10K3 — TB-M3044

HB

Example: BA/100TBM3044HB Thermobuffer probe 10,000Ω Type III with hanging bracket and jacketed cable (30"); other lengths available

RELATED PRODUCTS

T85U-XR
T81U-XR

1000 ohm, Type 85 4-20 mA temperature transmitter, custom rangeable
100 ohm, Type 81 4-20 mA temperature transmitter, custom rangeable