



Features & Options

- Etched Teflons Leads on Remote Sensors
- Plenum Cable or FEP Cable on Remote Probes
- Double Encapsulated Sensors on Remote Probes

BAPI Remote Sensors feature a .75" long encapsulation shell and etched Teflon leads in lengths of 6", 18", 5', 10', 15', 20', and 25'. Remote Sensors are perfect for tight locations. Additional cable options, lead lengths and probe styles are available.

Remote Probes feature a 1.75" long stainless steel probe with either Plenum-Rated Cable or FEP-Jacketed Cable. Lead lengths are 18", 5', 10', 15', 20', and 25'. Remote Probes are commonly used in refrigerated case or strap-on applications. They are ideal for hard-to-access areas or spaces where the usual Immersion or Duct Sensors do not fit well. Additional cable options, lead lengths and probe styles are available upon request.

Remote Sensors and Probes are available with a Weatherproof, BAPI-Box, BAPI-Box 2 or BAPI-Box 4 Enclosure.

Pierceable Knockout Plug

A Pierceable Knockout Plug is available for the open port in the BAPI-Box 4 enclosure (and other enclosures). With the plug installed, the BAPI-Box 4 carries an IP44 rating.

See "Accessories" for more info.



Pierceable Knockout Plug

BAPI-Box 4 Remote Sensor with Plug Installed



Specifications

Environmental Operation Range:

Temperature Sensor: -40 to 105 °C
 Temperature Transmitter: -20 to 70 °C
 Humidity: 0 to 100%, non-condensing

Enclosure Material:

WP: Cast Aluminum
 BB & BB2: UV-resist. polycarb., UL94, V-0
 BB4: Nylon & Plastic, UL94, V-0

Enclosure Rating:

WP Model: NEMA 3R
 BB & BB2 Models: IP66, NEMA 4
 BB4 Models: IP10 (IP44 with Knockout Plug installed)

Encl. Dimensions:

| | H x W x D |
|-------------------|--|
| BAPI-Box (BB) | 5 x 4.1 x 2.5" (127 x 104 x 63.5mm) |
| BAPI-Box 2 (BB2) | 4.9 x 2.8 x 2.35" (125 x 71.6 x 60mm) |
| BAPI-Box 4 (BB4) | 2.8 x 2.8 x 2.06" (72 x 71.4 x 52.3mm) |
| Weatherproof (WP) | 4.5 x 2.75 x 2.2" (114 x 70 x 55mm) |

(For enclosure dimension drawings, turn to the end of the section.)

For detailed specifications on the Sensors & Transmitters, see the "Sensors" section.

*All Passive Thermistors 20KΩ and smaller are CE compliant.





Rev. 12/07/15



| Ordering Information | | Remote Sensors & Probes | | |
|--------------------------------------|---|---|--|--|
| BA/ | | | | |
| Sensor Type (Required) | | Use the designator number (shown to the left in bold) to indicate the sensor | | |
| # | | THERMISTORS | RTDs | |
| | 1.8K | 1.8K Ω @ 25 °C | 1K[375] 1K Ω Platinum @ 0 °C, 3.75 Ω /°C temp. coeff. | |
| | 2.2K | 2.2K Ω @ 25 °C | 1K[Ni] 1K Ω Nickel @ 21°C, 5 Ω /°C temp. coeff. | |
| | 3K | 3K Ω @ 25 °C | 1K 1K Ω Platinum @ 0 °C, 3.85 Ω /°C temp. coeff. | |
| | 3.25K | 3.25K Ω @ 25 °C (T30 type) | 2K 2K Ω Silicon @ 20 °C, 8 Ω /°C temp. coeff. | |
| | 3.3K | 3.3K Ω @ 25 °C | | |
| | 10K-2 | 10K Ω @ 25 °C | | |
| | 10K-3 | 10K Ω @ 25 °C | | |
| | 10K-3[11K] | 5,238 Ω @ 25 °C | SEMICONDUCTORS | |
| | 20K | 20K Ω @ 25 °C | 334 LM334 Semiconductor | |
| | 47K | 47K Ω @ 25 °C | 592 AD592 Semiconductor, 273 μ A @ 0 °C | |
| | 50K* | 50K Ω @ 25 °C | 592-10K AD592 Semicond. with 10 k Ω shunt resistor, 2.73V @ 0 °C | |
| | 100K | 100K Ω @ 25 °C | | |
| | | TEMPERATURE TRANSMITTERS* | | |
| | T1K[range] | 1K Platinum RTD, 1,000 Ω @ 0 °C with 4 to 20 mA Output | | |
| T1KM[range] | 1K Platinum RTD, 1,000 Ω @ 0 °C with MATCHED 4 to 20 mA Output* | | | |
| T10K[range] | 10K Thermistor, 10,000 Ω @ 25 °C with 4 to 20 mA Output** | | | |
| T10K5[range] | 10K Thermistor, 10,000 Ω @ 25 °C with 0-5 VDC Output** | | | |
| T10K10[range] | 10K Thermistor, 10,000 Ω @ 25 °C with 0-10 VDC Output** | | | |
| | TEMPERATURE TRANSMITTER RANGES | | | |
| | Custom temperature transmitter ranges are available. Common ranges listed below | | | |
| | 0 TO 100F | -18 TO 38C | | |
| | -4 TO 176F | -20 TO 80C | | |
| | 40 TO 240 | 4 TO 116C | | |
| Probe Type and Lead Length | Required selection | | | |
| -PP-6" | Remote Sensor - 6" Leads (Etched Teflon Leadwires) | | | |
| -PP-18" | Remote Sensor - 18" Leads (Plenum Rated Cable) | | | |
| -PP-5' | Remote Sensor - 5' Leads (Plenum Rated Cable) | | | |
| -PP-10' | Remote Sensor - 10' Leads (Plenum Rated Cable) | | | |
| -PP-15' | Remote Sensor - 15' Leads (Plenum Rated Cable) | | | |
| -PP-20' | Remote Sensor - 20' Leads (Plenum Rated Cable) | | | |
| -PP-25' | Remote Sensor - 25' Leads (Plenum Rated Cable) | | | |
| -RPP-6" | Remote Probe with Plenum Rated Cable - 6" Leads | | | |
| -RPP-18" | Remote Probe with Plenum Rated Cable - 18" Leads | | | |
| -RPP-5' | Remote Probe with Plenum Rated Cable - 5' Leads | | | |
| -RPP-10' | Remote Probe with Plenum Rated Cable - 10' Leads | | | |
| -RPP-15' | Remote Probe with Plenum Rated Cable - 15' Leads | | | |
| -RPP-20' | Remote Probe with Plenum Rated Cable - 20' Leads | | | |
| -RPP-25' | Remote Probe with Plenum Rated Cable - 25' Leads | | | |
| -RPFEP-6" | Remote Probe with FEP Jacketed Cable - 6" Leads | | | |
| -RPFEP-18" | Remote Probe with FEP Jacketed Cable - 18" Leads | | | |
| -RPFEP-5' | Remote Probe with FEP Jacketed Cable - 5' Leads | | | |
| -RPFEP-10' | Remote Probe with FEP Jacketed Cable - 10' Leads | | | |
| -RPFEP-15' | Remote Probe with FEP Jacketed Cable - 15' Leads | | | |
| -RPFEP-20' | Remote Probe with FEP Jacketed Cable - 20' Leads | | | |
| -RPFEP-25' | Remote Probe with FEP Jacketed Cable - 25' Leads | | | |
| -RPFEP2-6" | Remote Probe with FEP Jacketed Cable (suitable for extended submersion) - 6" Leads | | | |
| -RPFEP2-18" | Remote Probe with FEP Jacketed Cable (suitable for extended submersion) - 18" Leads | | | |
| -RPFEP2-5' | Remote Probe with FEP Jacketed Cable (suitable for extended submersion) - 5' Leads | | | |
| -RPFEP2-10' | Remote Probe with FEP Jacketed Cable (suitable for extended submersion) - 10' Leads | | | |
| -RPFEP2-15' | Remote Probe with FEP Jacketed Cable (suitable for extended submersion) - 15' Leads | | | |
| -RPFEP2-20' | Remote Probe with FEP Jacketed Cable (suitable for extended submersion) - 20' Leads | | | |
| -RPFEP2-25' | Remote Probe with FEP Jacketed Cable (suitable for extended submersion) - 25' Leads | | | |
| | Enclosure Type¹ | Required for Temp. Transmitter units, optional for other units | | |
| | -BB | BAPI-Box Enclosure - IP66 rated, UV-resistant polycarbonate | | |
| | -BB2 | BAPI-Box 2 Enclosure - IP66 rated, UV-resistant polycarbonate | | |
| | -BB4 | BAPI-Box 4 Enclosure - IP10 rated, nylon & plastic (Not for Transmitters) (IP44 rated if Pierceable Knockout Plug is installed in the open port.) | | |
| | -WP | Weatherproof Enclosure - NEMA 3R rated metal enclosure | | |
| | | Options | An enclosure is required | |
| | | -TB | Test & Balance Switch (BB or BB2 required, includes a Terminal Strip Connection, not available with Temp. Transmitter) | |
| | | -TS | Terminal Strip Connection (BB or BB2 required for units with a Thermistor, RTD or Semiconductor)*** | |
| EXAMPLE | | | | |
| BA/ | 10K-2 | -PP-18" | | |
| Example Part Number: BA/10K-2-PP-18" | | | | |
| Your Part Number: | | | | |

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

¹Temperature Transmitters require an enclosure. The enclosure is optional for Thermistors, RTDs and Semiconductors.

²The 50K Ω Thermistor is not available for the Remote Sensor (-PP) configuration.

*MATCHED Transmitter use Class A RTD's & are matched at 25%, 50% & 75% of calibrated scale limited to within -25°C to 150°C.

**Range is limited to -40 to 185°F (-40 to 85°C)

***TS option is not available with the 592-10K Semiconductor sensor or the T10K transmitters.

