Remote Sensors & Probes $\mathsf{C}\mathsf{E}$ *

Temperature Sensors

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.

Remote Sensor with Epoxy Shell

Remote Probe with Plenum Cable

Remote Probe with FEP Cable

Weatherproof (WP)

BAPI-Box (BB)

BAPI-Box 2 (BB2)

BAPI-Box 4 (BB4)

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 ºC
  Temperature Transmitter: -20 to 70 ºC
  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.

BAPI

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		SEMICONDUCTORS
	10K-3[11K]	5,238 Ω @ 25 °C	334	LM334 Semiconductor
	20K	20K Ω @ 25 °C	592	AD592 Semiconductor, 273 µA @ 0 °C
	47K	47K Ω @ 25 °C	592-10K	AD592 Semicond. with10 kΩ shunt resistor,
	50K²	50K Ω @ 25 °C		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 -25ºC to 150ºC.
**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.

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