



Features & Options

- Series 304 Stainless Steel Probes: 2", 4", 8", 12" and 18"
- Several Enclosure Styles
- Double Encapsulated Sensors & Etched Teflon Leadwires
- Limited Lifetime Warranty
- Wide Selection of Temperature Sensing Elements

Single Point Duct Units feature closed cell foam to seal the probe insertion hole and to absorb vibration. Mounting tabs allow for easy installation directly to the wall of the duct.

All Duct Units have etched Teflon leadwires and double encapsulated sensors to create a watertight package that can withstand high humidity and condensation and perform under real world conditions. Duct Units have probe lengths from 2" to 18" to accommodate most duct shapes and sizes. Custom probe lengths are also available.

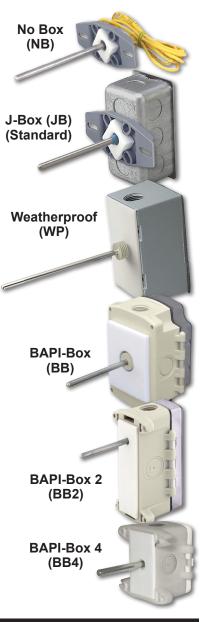
Duct Units come standard with a 2"x4" steel J-Box but are also available with no box or four styles of enclosure: the metal Weatherproof, the UV-resistant polycarbonate BAPI-Box and BAPI-Box 2 or nylon & ABS plastic BAPI-Box 4.



Pierceable Knockout Plug

A Pierceable Knockout Plug is available for the open hole in the BAPI-Box 4 enclosure (and for ports in other enclosures). With the plug installed, the BAPI-Box 4 carries an IP44 rating. See "Accessories" for more info.

> BAPI-Box 4 Duct Sensor with Plug Installed



Specifications

Enclosure Material:

J-Box Model: Galv. Steel WP Model: Cast Aluminum

BB & BB2: Polycarbonate, UL94, V-0 BB4 Model: Nylon & Plastic, UL94, V-0

Enclosure Rating:

J-Box Model: IP20, NEMA 1

BB4 Model: IP10

(IP44 with Knockout Plug)

WP Model: NEMA 3R

BB & BB2 Models: IP66. NEMA 4

Environmental Operation Range:

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

Encl. Dimensions: HxWxD

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) J-Box (JB) 4.2 x 3.9 x 1.94" (106 x 98.4 x 49mm) 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.



10/14/15

/	formation Duc	t Units - Tempera	ture					
	or Type (Required)	Use the design	nator number	(shown to	the left in bold) to	o indicate the sensor		
	(304)			(
		THERMISTORS		41470==1	RTDs	0.00 0.75 0.00 /		
#	_	1.8K Ω @ 25 °C			_	0 °C, 3.75 Ω/°C temp. coeff.		
	2.2K	2.2K Ω @ 25 °C			_	1°C, 5 Ω/°C temp. coeff.		
	3K	3K Ω @ 25 °C	O (TOO !)	1K	_	0 °C, 3.85 Ω/°C temp. coeff.		
	3.25K	3.25K Ω @ 25 °C		2K	2K Ω Silicon @ 2	0°C, 8 Ω/°C temp. coeff.		
	3.3K	3.3K Ω @ 25 °C						
	10K-2	10K Ω @ 25 °C			SEMICONDUCTO			
	10K-3	10K Ω @ 25 °C	•	334	LM334 Semicond			
	10K-3[11K]	5,238 Ω @ 25 °C	;	592		luctor, 273 μA @ 0C		
	20K	20K Ω @ 25 °C		592-10K	AD592 Semicond.	w/ 10 k Ω shunt resistor, 2.73 V @		
	47K	47K Ω @ 25 °C						
	50K	50K Ω @ 25 °C						
	100K	100K Ω @ 25 °C						
		TEMPERATURE TRANSMITTERS Must include a "range" figure. Requires an enclosu						
	T1K[range]		RTD, 1,000 Ω @ 0 °C with 4 to 20 mA Output					
	T1KM[range]		IK Platinum RTD, 1,000 Ω @ 0 °C with MATCHED 4 to 20 mA Output*					
	T10K[range]		_		to 20 mA Output**			
	T10K5[range]	10K Thermistor,			•			
	T10K10[range]	10K Thermistor,	10,000 Ω @ 25	5 °C with 0-	-10 VDC Output**			
		TEMPERATURE TRANSMITTER RANGES						
		Custom tempera	ature transmitter	r ranges ar	e available. Comm	on ranges are listed below		
		40 TO 90F	4 TO 32C		-30 TO 130F	-34 TO 54C		
		0 TO 100F	-18 TO 38C		32 TO 212F	0 TO 100C		
		20 TO 120F	-7 TO 49C		30 TO 234F	-1 TO 112C		
		32 TO 134F	0 TO 57C					
	Probe Length	(Required)						
	-D-2"	2" length of 1/4" Diameter, Stainless Steel Probe						
	-D-4"	4" length of 1/4" Diameter, Stainless Steel Probe						
	-D-8"	8" length of 1/4" Diameter, Stainless Steel Probe						
	-D-12"	12" length of 1/4" Diameter, Stainless Steel Probe						
	-D-18"	18" length of 1/4"						
	-D-XX"	Custom lengths	of 1/4" Dia, Stain	less Steel	Probe are availabl	e. Call for details.		
		Optional Enclos			J-Box comes sta			
					66 rated, UV-resista			
			BAPI-Box 2 Enclosure - IP66 rated, UV-resistant polycarbonate					
						plastic (Not for Transmitters)		
		-504	(IP44 rated if P	Pierceable I	Knockout Plug is in	stalled in the open port.)		
					- NEMA 3R rated,			
					d Length, Plenum			
			No Junction Box, 5' Lead Length, Plenum Rated Cable					
					d Length, Plenum I			
		-NB-15'			d Length, Plenum I			
		AID MA	It instem load la	engths (Ple	num Rated cable)	are available. Call for details.		
					re is required	or DD2 required includes a Tax		
				Test & Ba	re is required alance Switch (BB o	or BB2 required, includes a Tel		
			Options A	Test & Ba Strip Con	re is required lance Switch (BB on nection, not availal	ble with Temp. Transmitter)		
			Options A	Test & Ba Strip Con Terminal	re is required plance Switch (BB of nection, not availal Strip Connection (I	ble with Temp. Transmitter) BB or BB2 required for units wi		
MDIE			Options A	Test & Ba Strip Con Terminal	re is required lance Switch (BB on nection, not availal	ble with Temp. Transmitter) BB or BB2 required for units wi		
MPLE / 10k	G-2 -D-8"		Options A	Test & Ba Strip Con Terminal	re is required plance Switch (BB of nection, not availal Strip Connection (I	ble with Temp. Transmitter) BB or BB2 required for units wi		

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

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



^{*}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)