SPRING LOADED BAYONET FITTING WITH ARMOR

How to build a part number:

To order an Applied Sensor Technologies temperature sensor, select the requirements for the categories listed below and fill in the corresponding boxes with your selection. Don't see exactly what you need? Give us a call!

SENSOR TYPE	ASSEMBLY STYLE	SHEATH DIAMETER	SHEATH MATERIAL	CALIBRATION	HOT JUNCTION	SHEATH LENGTH	ARMOR CABLE LENGTH	OPTIONS

SENSOR TYPE*
GP – General purpose thermocouple
MI – Mineral insulated thermocouple

ASSEMBLY STYLE
71 – **Sheath with stainless steel armor**; fiberglass insulated conductors; fiberglass jacket; spring-loaded bayonet cap; (use with Bayonet Adapter- see options on page 1-16b)

SHEATH DIAMETER (in inches)
6 – 3/16 (0.188)

SHEATH MATERIAL
3 – 316 stainless steel

CALIBRATION - Standard limits

J – Single J	**JJ** – Dual J
K – Single K	**KK** – Dual K
T – Single T	**TT** – Dual T
E – Single E	**EE** – Dual E

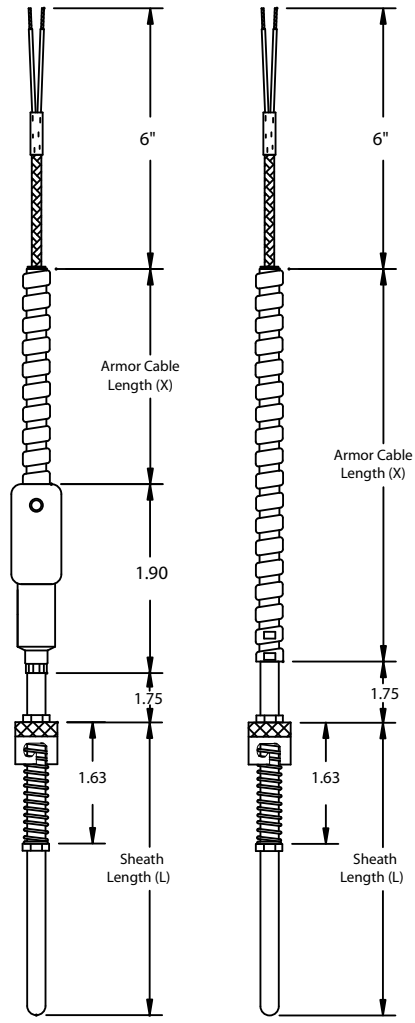
HOT JUNCTION
G – Grounded junction
U – Ungrounded junction

SHEATH LENGTH (Note: maximum L=96" for GP; for MI, lengths over L84 will be shipped coiled unless otherwise specified)
L# – (e.g., L6 = 6 inch sheath, L12.5 = 12.5 inch length)

ARMOR CABLE LENGTH
X# – (e.g., X72 = 72 inch length)

OPTIONS – see page 1-16b

*Note: GP thermocouples, manufactured using hollow tubing and wire, tend to be lower cost than MI, but cannot be bent in the field and are standardly designed for sensing temperatures below 500°F. MI thermocouples are more rugged than GP due to compacted magnesium-oxide powder insulation, can be bent in the field, and are appropriate for the temperature range of the sensor and sheath.



MI Type GP Type

AVAILABLE OPTIONS and MODIFICATIONS

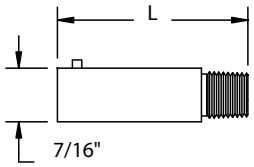
ASSEMBLY OPTIONS		
Option Code	Description	
TAG1	Stainless steel tag and wire	
BD90	90° bend in sheath, 3/4" from back end of cap **Formerly Style 35**	
BD45	45°bend in sheath, 3/4" from back end of cap **Formerly Style 70**	
CAL1	NIST traceable calibration [specify point(s)]	
CRT1	Certificate of conformance	
HT10	High temperature (900°F) transition. (Standard transition rated 500°F/260°C)	
BAYONET ADAPTERS (PLATED STEEL)		
Option Code	Thread Size	Length (L)
BA20	1/8" - 27 NPT	7/8"
BA22	1/8" - 27 NPT	1–1/2"
BA24	1/8" - 27 NPT	2–1/2"
PIPE CLAMP AND BAYONET ADAPTERS		
Option Code	Band Diameter	Adapter Length (l)
BA30	11/16" to 1–1/4"	2"
BA31	1–1/16" to 2"	2"
BA32	2–1/16" to 3"	2"
BA33	3–5/16" to 4–1/4"	2"
BA34	4–1/8" to 5"	2"

WIRING CONNECTION OPTIONS	
Option Code	Description
WC76	#6 spade terminals, plated copper
WC70	#10 spade terminals, plated copper
WC84	1/4" push-on insulated terminals, plated copper
WC90	#10 ring terminals
WC98	#8 ring terminals
PLUGS AND JACKS (Note: plug is designed to be attached to sensor assemblies. Jack options – for customer wiring – should only be specified if plug option is also included. Cable clamp is included for both plug and jack options.)	
PJ10	Standard plug, rated to 177°C (350°F)
PJ20	Standard jack, rated to 177°C (350°F)
PJ30	Miniature plug, rated to 177°C (350°F)
PJ40	Miniature jack, rated to 177°C (350°F)
PJ50	High temp. standard plug, rated to 260°C (500°F)
PJ60	High temp. standard jack, rated to 260°C (500°F)
BX CONNECTORS	
WC40	1/2"
WC50	3/4"

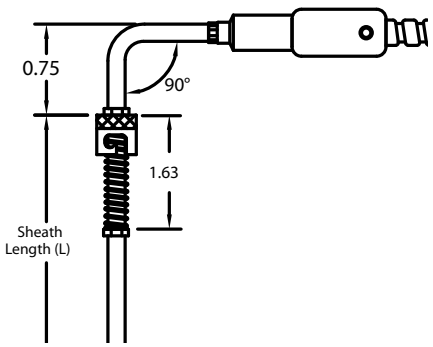
EXTENSION WIRE

A selection of extension-grade thermocouple wire is available to connect the sensor to its input device. Consult Accessories section.

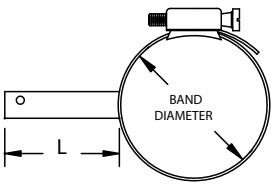
BAYONET ADAPTER
(PLATED STEEL)



BD90 OPTION VIEW
ON MI71 STYLE



PIPE CLAMP WITH
BAYONET ADAPTER



Note: Many non-standard options, including additional sheath diameters and materials, may also be available – consult AST for specific requirements.