

# Fixed T/C, Bayonet

## Fixed Depth Immersion Thermocouple with Bayonet Lock

### Introduction

Bayonet thermocouples have a compressible spring and locking cap for quick insertion and detachment. They are available with no protection tube (insulation only), armor clad flexible tube, or stainless steel overbraid. All are light weight for easy connection to an instrument or a distant junction box. Closed end tubes are silver soldered for Types J, T and E; and welded for Type K. Bayonet thermocouples are generally rated for service to 900°F under dry conditions; temperature rating does not apply to cold end terminations.

### Features

- Locking Cap/Spring for Quick and Easy Attachment/Detachment
- Compressed Spring Holds Rigid Probe Firmly Against Well Bottom
- Thermocouple at Tip of Probe for Maximum Heat Transfer
- Maximum 900°F Over Probe and Tube

**Model No.** P     -     0 0 -     - 4 -

Field No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

**Schedule: S2**

### Field 1. BASE MODEL

P - Plastics industry

### Fields 2, 3. THERMOCOUPLE TYPE

Fiberglass insulation unless otherwise stated.

☛ Determine length (Y + L) by completing Fields 10, 11, 12 and Field 7

Type	Description	18 to 36"	Ea. Add'l 6"
01 - J	20 gauge, solid		
07 - J	20 gauge, stainless steel overbraid		
11 - J	20 gauge, strand, stainless steel overbraid		
05 - K	20 gauge, solid		

Several other wire codes are available. See Table 1 on page 2-10 for a complete listing. Compatibility of wire and junction styles is listed in Table 2 on page 2-11.

### Field 4. NUMBER OF ELEMENTS, PROBE CONFIGURATION

Complete Fields 5, 6; then check compatibility Table 2 on page 2-11.

- 1 - Single element, straight
- 2 - Single element, 90°
- 3 - Single element, 45°
- 4 - Dual element, straight. Return to Fields 2, 3, double that price
- 5 - Dual element, 90°. Return to Fields 2, 3, double that price and add
- 6 - Dual element, 45°. Return to Fields 2, 3, double that price and add

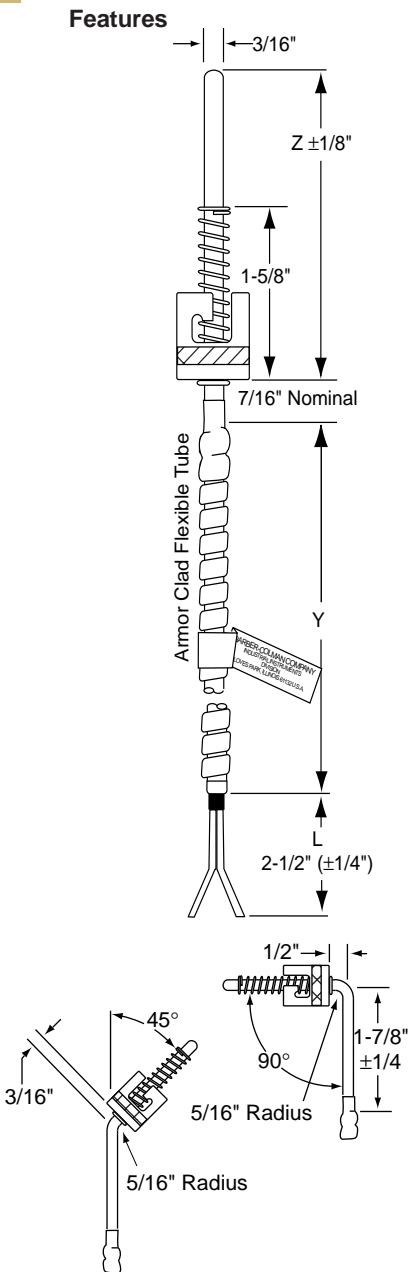
### Fields 5, 6. JUNCTION STYLE, LEAD PROTECTION

18 to 36"

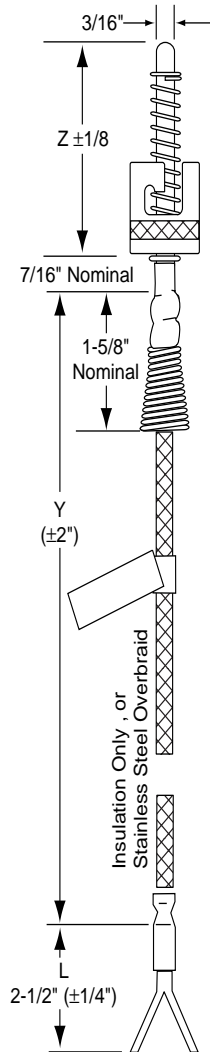
Ea Add'l 6"

☛ Determine length by completing Fields 10, 11, 12

- |                             |                  |
|-----------------------------|------------------|
| 30 - Open end, grounded,    | no flexible tube |
| 31 - Closed end, grounded   | no flexible tube |
| 32 - Open end, grounded     | flexible tube    |
| 33 - Closed end, grounded   | flexible tube    |
| 34 - Closed end, ungrounded | no flexible tube |
| 35 - Closed end, ungrounded | flexible tube    |



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## Field 7. COLD END TERMINATION

**Single Element**

**Dual Element**

- 0 - 2-1/2" split leads, ends stripped
- 1 - 2-1/2" split leads, spade lugs
- 2 - 2-1/2" split leads, spade lugs, 1/2" NPS box connector with lock nut
- 3 - Solid pin quick disconnect plug(s)
- 4 - Solid pin quick disconnect plug(s) with mating jack(s)
- 7 - Quick disconnect jack(s)
- C - Hollow pin quick disconnect plug(s), Type J only
- D - Hollow pin quick disconnect plug(s) with mating jack(s), Type J only

### Extended Lead (DIMENSION "L")

☞ Complete this Field to determine length for Fields 2, 3

- F - 12", split ends stripped
  - G - 24", split ends stripped
  - H - 48", split ends stripped
  - J - 96", split ends stripped
  - K - 144", split ends stripped
- For other lengths, consult factory

## Fields 8, 9. RESERVED

## Fields 10, 11, 12. FLEXIBLE LENGTH (DIMENSION "Y")

☞ Complete these Fields to determine length for Fields 2, 3: and 5, 6

YYY - Enter "Y" length in whole inches; minimum 018"

## Field 13. RESERVED

## Fields 14, 15. LOCK DEPTH (DIMENSION "Z")

Add adapter length to immersion (hole) depth; then add 3/16" if adapter has 1/8 NPT, or 1/16" if adapter has 3/8-24 thread. Round "Z" dimension upward to nearest 1/8".

ZZ - See table below. First 6"

Each 6" after first 6"

01 ..... 1-1/2"	04 ..... 3"	31 ..... 4-3/8"	10 ..... 6"
14 ..... 1-5/8"	23 ..... 3-1/8"	07 ..... 4-1/2"	41 ..... 6-1/8"
15 ..... 1-3/4"	24 ..... 3-1/4"	32 ..... 4-5/8"	42 ..... 6-1/4"
16 ..... 1-7/8"	05 ..... 3-1/2"	33 ..... 4-3/4"	43 ..... 6-3/8"
02 ..... 2"	25 ..... 3-3/8"	34 ..... 4-7/8"	11 ..... 6-1/2"
17 ..... 2-1/8"	05 ..... 3-1/2"	08 ..... 5"	44 ..... 6-5/8"
18 ..... 2-1/4"	26 ..... 3-5/8"	35 ..... 5-1/8"	45 ..... 6-3/4"
19 ..... 2-3/8"	27 ..... 3-3/4"	36 ..... 5-1/4"	46 ..... 6-7/8"
03 ..... 2-1/2"	28 ..... 3-7/8"	37 ..... 5-3/8"	12 ..... 7"
20 ..... 2-5/8"	06 ..... 4"	09 ..... 5-1/2"	47 ..... 7-1/8"
21 ..... 2-3/4"	29 ..... 4-1/8"	38 ..... 5-5/8"	48 ..... 7-1/4"
22 ..... 2-7/8"	30 ..... 4-1/4"	39 ..... 5-3/4"	49 ..... 7-3/8"
99 - Not listed; specify on order	40 ..... 5-7/8"	13 ..... 7-1/2"	

### EZ Price

The most often ordered assemblies are:

(Prices assume a "Z" dimension of 6" or less) (Dimension "Y")

With Flexible Tube

**18 to 36"**

**Ea. Add'l 6"**

P011-33000-YYY-4-ZZ with stripped leads

P011-33100-YYY-4-ZZ with spade lugs

P011-33300-YYY-4-ZZ with quick disconnect plug

With Stainless Steel Overbraid

P111-31000-YYY-4-ZZ with stripped leads

P111-31100-YYY-4-ZZ with spade lugs

P111-31300-YYY-4-ZZ with quick disconnect plug