

# Varidepth RTD, Armor

## Varidepth® Adjustable Depth Immersion RTD in Armor Clad Flexible Tube

### Introduction

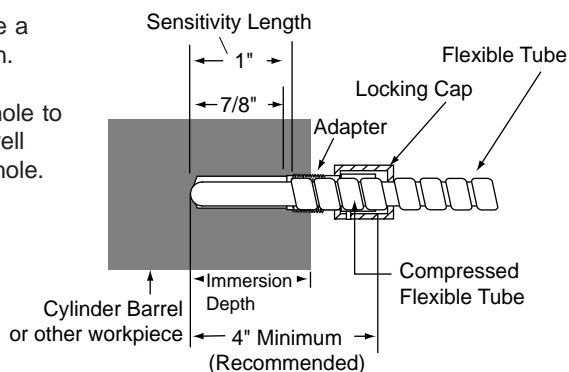
The Varidepth resistance temperature detector adjusts to many depths eliminating the need to stock a variety of fixed immersion sensors. Compression of the flexible tube provides locking force that keeps the probe tip tight against the bottom of the adapter well.

### Features

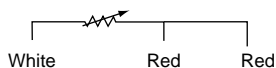
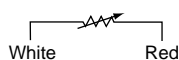
- **Locking Cap Adjusts Easily to Any Position On Flexible Tube**
- **Compressed Tube Holds Probe Tip Firmly Against Well Bottom**
- **RTD at Tip of Probe for Maximum Heat Transfer**

### Varidepth Installation Procedure

1. Using a number 9 drill, bore a hole to the immersion depth.
2. Using a 9/32" drill, bore a hole to within 7/8" of the adapter well bottom. Clean chips from hole.
3. Tap the open end of the adapter well for 1/8" NPT or 3/8-24. Clean chips from hole
4. Install adapter. Minimum distance recommended from bottom of well to top of adapter is four inches.
5. Insert probe into adapter.



6. Hold probe firmly against bottom of well. Rotate locking cap on flexible tube until it is about one turn from adapter. Press and twist the locking cap to lock it against the adapter. Be certain the probe is firmly seated in the well.
7. The six inch leads must be free to move to allow the flexible tubing to compress at the probe end. A one inch diameter loop in the leads is suggested.
8. Wire the RTD to indicator or controller instrument per instructions of the instrument manufacturer.



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## Ordering Information

**Model No.** P     - 3 3  0 0 -    - 6 -    
 Field No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

**Schedule:** S2

### Fields 1, 2. BASE MODEL

P5 - 0.00391  $\Omega/\Omega/^\circ\text{C}$  Resistance Temperature Detector ..... \$3.15  
 P7 - 0.00385  $\Omega/\Omega/^\circ\text{C}$  Resistance Temperature Detector ..... \$0

### Field 3. ELEMENT

Determine length (Y + L) by completing Fields 10, 11, 12, and Fields 14, 15.

	<u>Accuracy (at 300°F)</u>	<u>Temp Rating</u>	<u>Wires</u>	<u>First 36"</u>	<u>Ea. Add'l 6"</u>
1 -	0.25%	500°F	3		
2 -	0.10%	932°F	3		
3 -	0.25%	932°F	3		
4 -	0.10%	500°F	2		
5 -	0.25%	932°F	2		
6 -	0.10%	500°F	3		

### Field 4. NUMBER OF ELEMENTS, CONFIGURATION

- 1 - Single element, straight
- 4 - Dual element, straight

First 36"      Ea. Add'l 6"

### Fields 5, 6. RESERVED

### Fields 7 COLD END TERMINATION

- 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
- 4 - Solid pin quick disconnect plug with mating jack

Single Element      Dual Element

### Fields 8, 9. RESERVED

### Field 10, 11, 12. FLEXIBLE LENGTH (DIMENSION "Y")\*

Complete these Fields to determine length for Field 3  
 YYY - Actual length in whole inches (minimum 018)

### Field 13. RESERVED

### Fields 14, 15. LEAD LENGTH (DIMENSION "L")\*

Complete these Fields to determine length for Field 3  
 00 - 6"  
 LL - Actual length in feet.  
 99 - Longer than 98 feet. Specify on order

\*Total assembly length over 4 feet introduces an offset in sensed temperature of approximately 1-1/4°F per 10 feet over 4 feet.

