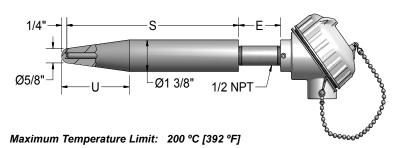
# Configuration Code FD06 Weld-In RTD Assemblies

The Weld-In RTD temperature sensor assemblies listed below are commonly used in the food, dairy, beverage, pharmaceutical, and chemical processing industries. The complete assemblies are provided with a 3-wire platinum RTD element sealed inside a 1/4" O.D., spring-loaded, stainless steel sheath, and with a heavy wall sanitary protection well. Thermowells are supplied with a surface finish that meets or exceeds  $32\mu$ in  $R_a$ . Surface finishes of  $15\mu$ in  $R_a$  or better are available upon request. The well is to be welded into a tank or vat with a full crevice-free fillet-weld to prevent corrosion, bacteria growth, and product contamination. Assemblies are provided with a white FDA compliant polypropylene connection head. The complete assembly provides excellent washdown protection.





2

## **ORDER CODES**

Example Order Number:

R1T185L48 3 - W81-18

Weld - In Wells

1-0

3 4 5 - **SL** - **8PN4** - **63** 

### 1-0 Pt100 (α = 0.003 85 °C<sup>-1</sup>) RTD Assemblies

CODE	TOLERANCE <sup>[1]</sup>	NORMAL SHEATH DIAMETER O.D. (inches)
SINGLE		
R1T185L48	Grade B	1/4
R3T185L48	Class AA	1/4
R5T185L48	(1/5) Class B	1/4
RAF185L48	Class A	1/4
DUPLEX		
R1T285L48	Grade B	1/4
R3T285L48	Class AA	1/4
R5T285L48	(1/5) Class B	1/4
RAF285L48	Class A	1/4
[1] Refer to RTD tolerance information in the		

# [1] Refer to RTD tolerance information in the General Information section for calculations to determine specific tolerance at temperature.

(inches)	
S	U
8 (1/4)	3 (1/4)
9 (7/8)	3 (1/4)
11 (5/8)	5
12 (7/8)	3 (3/4)
	(inches)  S  8 (1/4)  9 (7/8)  11 (5/8)

WELL DIMENSIONS

#### 3 Element Style

CODE	DESCRIPTION	
SL <sup>[1]</sup>	Spring-loaded element	
sc	Self-contained spring- loaded element	
[1] Not available with 35, 36, or 37 Series Transmitters		

#### 4 Head Extensions

CODE	DESCRIPTION
8HN	316SS 1/2" NPT hex fitting
8PN(E)	316SS pipe nipple (specify length in inches)

## 5 Terminations

CODE	DESCRIPTION	
91	316L stainless steel screw-cover head	
63	White polypropylene screw-cover head	
31,W	Aluminum screw-cover head with white epoxy coating	
35T- 642A	(4 to 20) mA HART® Field Transmitter with aluminum general-purpose housing	
36T82- D10	(4 to 20) mA dual input HART® transmitter with digital display and general-purpose aluminum housing with glass lid	
37T- 662A	(4 to 20) mA HART® Field Transmitter with general-purpose aluminum housing	
Не	Head Options	
T-440	(4 to 20) mA head-mounted RTD transmitter	
T-441	(4 to 20) mA isolated head-mounted transmitter	
T-442	(4 to 20) mA isolated HART® head- mounted transmitter	
T82-00	(4 to 20) mA dual input HART® head- mounted transmitter	
1	Stainless steel tag	

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## 1-1 Element Connection

CODE DESCRIPTION	
3	3-Wire Element
4 [1] 4-Wire Element	
[1] Not Available in Dunley	

### Example Order Number:

W81-18

PART NUMBER	S LENGTH (inches)	U LENGTH (inches)
W81-18	8 (1/4)	3 (1/4)
W81-28	9 (7/8)	3 (1/4)
W81-38	11 (5/8)	5
W81-48	12 (7/8)	3 (3/4)