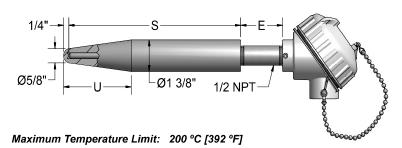
FOOD, DAIRY & PHARMACEUTICAL

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 32μ in R_a . Surface finishes of 15μ 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.





ORDER CODES

Example Order Number:

1-0 1-1 2 3 R1T185L48 3 - W81-18 - SL - 8F

1-0 Pt100 (α = 0.003 85 °C⁻¹) RTD Assemblies

CODE	TOLERANCE ^[1]	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 General Information section for calculations to		

1-1 Element Connection

CODE	DESCRIPTION	
3	3-Wire Eleme	ent
4 [1]	4-Wire Eleme	ent
[1] Not Available in Du	olex	

determine specific tolerance at temperature.

Example Order Number:

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

W81-18

2 Weld - In Wells

CODE	WELL DIMENSIONS (inches)	
316SS	s	U
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)

3 Element Style

CODE	DESCRIPTION
SL ^[1]	Spring-loaded element
sc	Self-contained spring- loaded element
[1] Not a	vailable 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)

4

5

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
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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