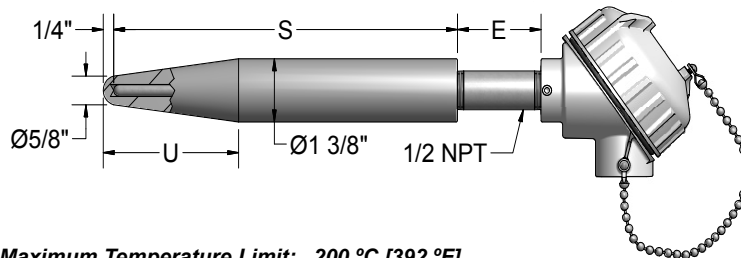


The Weld-In RTD temperature sensor assemblies listed below are commonly used in the food, dairy, beverage, pharmaceutical, and chemical processing industries. The complete assemblies are provided with a 3-wire platinum RTD element sealed inside a 1/4" O.D., spring-loaded, stainless steel sheath, and with a heavy wall sanitary protection well. Thermowells are supplied with a surface finish that meets or exceeds 32µin R_a. Surface finishes of 15µin 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 FDA-compliant white thermoplastic-gasketed connection head. The complete assembly provides excellent washdown protection.



Maximum Temperature Limit: 200 °C [392 °F]

ORDER CODES

Example Order Number: **R1T185L483** - **W81-18** - **SL** - **8PN4** - **63**

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

CODE	TOLERANCE ^[1]	NORMAL SHEATH DIAMETER O.D. (inches)
SINGLE		
R1T185L483	Grade B	1/4
R3T185L483	Class AA	1/4
R5T185L483	(1/5) Class B	1/4
RAF185L483	Class A	1/4
DUPLEX		
R1T285L483	Grade B	1/4
R3T285L483	Class AA	1/4
R5T285L483	(1/5) Class B	1/4
RAF285L483	Class A	1/4

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

2 Weld - In Wells

CODE	WELL DIMENSIONS (inches)	
	S	U
316SS		
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	Spring-loaded element

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

Head Options

T	Head-mounted transmitter (see Transmitter Section)
I	Stainless steel tag

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)

