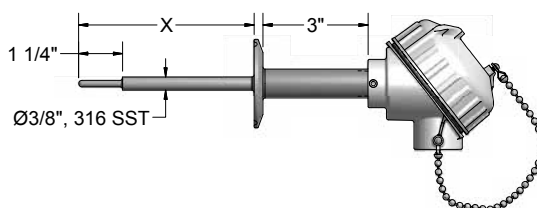


The sensors listed below are sanitary-connected RTD temperature sensor assemblies designed to meet the stringent requirements of HTST pasteurization systems. HTST requirements are described in the Grade "A" Milk Pasteurization Ordinance. The sensors listed on this page have response times below four seconds and come standard in accuracies at 100 °C [212 °F] ± 0.5 °C. The below listed assemblies are available in a variety of sanitary connections. All wetted parts are ground and polished to a finish that exceeds the No. 4 minimum finish required by the 3-A Sanitary Standards for Sensors and Sensor Fittings and Connections used on Milk and Milk Product Equipment Standard 74-. Assemblies 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 three-wire constructed sensor assembly consists of a high accuracy platinum element sealed inside a 316 stainless steel sheath and a white FDA compliant polypropylene connection head. The complete assembly provides excellent wash down protection. It is recommended that once customer connections are made, the connecting terminals be further protected by applying a coating of moisture-proof sealant over the connections.



74-



Maximum temperature limit: 200 °C [392 °F]
Pasteurization Test Response Time: 2 to 3 seconds typical

ORDER CODES

Example Order Number:

1-0 1-1 1-2 2 3 4
R5T185L68R38 3 - 04 - HTST - 2 - 5 - 63

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

CODE		TOLERANCE ^[1]
SINGLE	DUPLEX	
R3T185L68R38	R3T285L68R38	Class AA
R5T185L68R38	R5T285L68R38	(1/5) Class B

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

1-1 Element Connection

CODE	DESCRIPTION
3	3-Wire Element
4 ^[1]	4-Wire Element

[1] Not Available in Duplex

1-2 Immersion Length "X"

Specify "X" length in inches using 2 digits, plus any fractional length desired.
2" minimum length is required.
Examples: 04 = 4", 05(1/2) = 5.5"

2 Sanitary Cap Size

CODE	TUBE O.D. (inches)	CODE	TUBE O.D. (inches)
1	1(1/2)	4	3
2	2	5	4
3	2 (1/2)	Z	Other (specify)

3 Sanitary Cap Style

CODE	DESCRIPTION
2	16A cap - bevel seat with 13-H nut ^[1] 304SS
5	16 AMP cap - Tri-Clamp [®] 316SS
7	16AI-14I cap ^[2] 304SS
8	Other (describe)

[1] Must be manually cleaned [2] Not 3-A authorized

4 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 142A	(4 to 20) mA HART [®] Field Transmitter with aluminum general-purpose housing
36T71-D10	(4 to 20) mA isolated Programmable transmitter with digital display and general purpose aluminum housing with glass lid
36T72-D10	(4 to 20) mA isolated Programmable HART [®] transmitter with digital display and general purpose aluminum housing with glass lid
36T82-D10	(4 to 20) mA dual input HART [®] transmitter with digital display and general-purpose aluminum housing with glass lid
22 (06)	6" individual fluoropolymer leads with terminal pins
02	1/2" O.D., 2 1/4" long extension leadwire transition (requires table 5 & 6 selections from RTD section)

Head Options

T31	(4 to 20) mA head-mounted RTD transmitter
T71-00	(4 to 20) mA isolated Programmable transmitter
T72-00	(4 to 20) mA dual input, isolated HART [®] head-mounted transmitter
T82-00	(4 to 20) mA dual input HART [®] head-mounted transmitter
I	Stainless steel tags
HS	Wire seal security screws

Tri-Clamp[®] is a registered trademark of Alfa Laval, Inc.

HART[®] is a registered trademark of HART Communication Foundation.