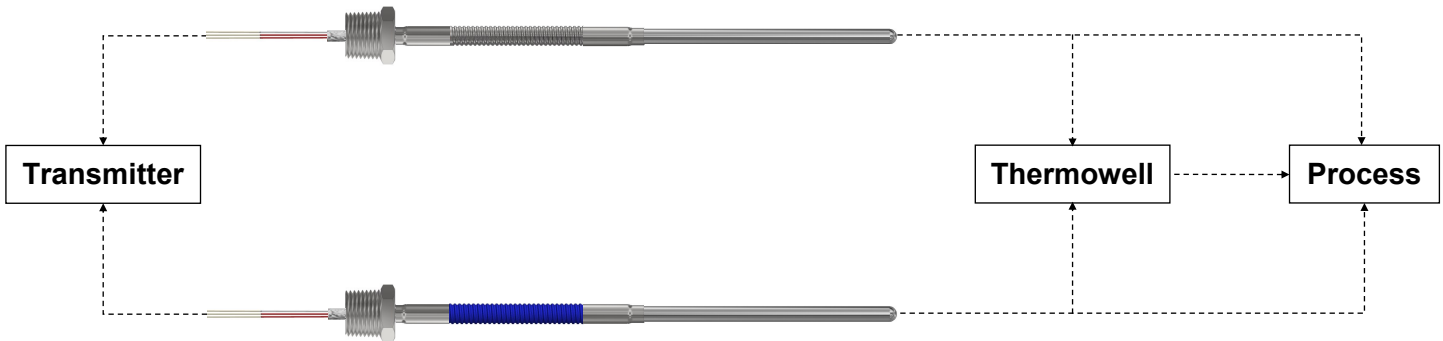


# RT15 Direct Mount RTD Assembly

Class I, Division 2, Groups A, B, C, D; Class I, Zone 2, Group IIC (Note 2); T6...T1



## Overview

### Description:

The RT15 direct mount RTD assembly is an RTD sensor designed for use in hazardous locations. The RT15 is a customizable product that is model number configured and made to order.

The RT15 consists of an RTD sensor probe, complete with a flexible armor that connects to a 1/2" NPT fitting that can be connected to a direct mount temperature transmitter. Connection to a thermowell is optional for the RT15.

### Features:

- Simple design that is used and accepted across multiple process industries.
- RT15 configuration options allow for many different arrangements to be configured for almost any temperature measurement application.

### Application:

- Hazardous location temperature measurement
- Industrial temperature measurement
- Process control
- Outdoor / indoor use

## Specifications

Accuracy RTD	Tolerance per IEC 60751 (DIN EN 60751)
T-Code	T6...T1
Electrical rating	30 Vdc, 1.0 A max
Ambient temperature	-50°C to +50°C (-58°F to +122°F)
Process temperature	-50°C to +450°C (-58°F to +842°F)
CSA Certificate of Compliance	1526478

### Note:

1. Specifications will depend on model code variants, and the values shown are the full rated model ranges.
2. Class I, Zone 2, Group IIC is US only.

# RT15 RTD Assembly Model Code

RT15 - T1 - T2 - T3 - T4 - T5 - T6 - T7 - T8 - T9

## RT15 Direct mount RTD assembly with flexible armor

T1	Direct Mount Transmitter
"Code"	Aircom listed direct mount transmitter model code (consult factory)
X	Not required

T2	Flex-Armor Extension	Lead Wire Ratings
AF	Flex armor over fiberglass lead wire	Fiberglass lead wire +485°C (+905°F)
AT	<b>Flex armor over Teflon lead wire</b>	<b>Teflon lead wire +260°C (+500°F)</b>
PT	Poly jacketed flex armor over Teflon lead wire	Teflon lead wire +260°C (+500°F) / Poly jacket +90°C (+194°C)
TT	Teflon jacketed flex armor over Teflon lead wire	Teflon lead wire / jacket +260°C (+500°F)

T3	Flex-Armor Extension "A" length (inches)	CSA Process Temperature Rating
"inches"	Specify length in inches	-50°C to +450°C (-58°F to +842°F), when "A" length is ≥ 8" length <sup>4</sup>

T4	Element Type
A	<b>100Ω Pt. 385 Class A (Class A tolerance ≤ +300°C (+572°F), Class B tolerance typically applies &gt;+300°C (+572°F))</b>
B	100Ω Pt. 385 1/10 Class B (1/10 DIN; tolerance typically applies ≤ +300°C (+572°F))
C	100Ω Platinum 392
D	120Ω Nickel 627 0.806Ω/°C
E	10Ω Copper 427 0.039Ω/°C
F	1000Ω Pt. 385 Class A

T5	Number of Elements
S	Single element
D	Dual element

Continued on page 3



# RT15 RTD Assembly Model Code

RT15 - T1 - T2 - T3 - T4 - T5 - T6 - T7 - T8 - T9

Continued from page 2

T6	Lead Wire Configuration
2	2 Wire
<b>3</b>	<b>3 Wire</b>
4	4 Wire

T7	Sensor Probe Construction	
LT	Low temperature (-50 to +260°C) (-58°F to +500°F)	Temperature values are for the RTD temperature sensor probe construction only. The CSA process and ambient temperature assembly ratings are dependant on connection head (T1) and flex-armor extension length (T3).
HT	High temperature (-50 to +482°C) (-58°F to +899°F)	
ET	Extreme temperature (-50 to +850°C) (-58°F to +1562°F)	
VT	Vibration construction (-50 to +482°C) (-58°F to +899°F)	
CT	Cryogenic temperature (-200 to +260°C) (-328°F to +500°F)	

T8	Sensor "L" Length (inches)
"inches"	Specify length in inches

T9	Sensor Sheath Diameter
18	1/8" (0.125")
36	3/16" (0.188")
<b>14</b>	<b>1/4" (0.250")</b>
38	3/8" (0.375")

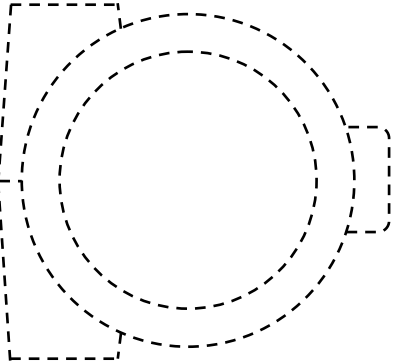
**NOTES:**

1. Part number example: RT15-X-AT-60-A-S-3-LT-12-14
2. Reference page 4 for part outline and 5 for part dimensions
3. Bold text indicates most common part selections
4. The sensor temperature rating is based on the length not directly in contact with the process at its maximum temperature

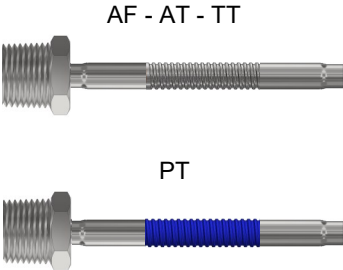


# RT15 RTD Assembly Outline

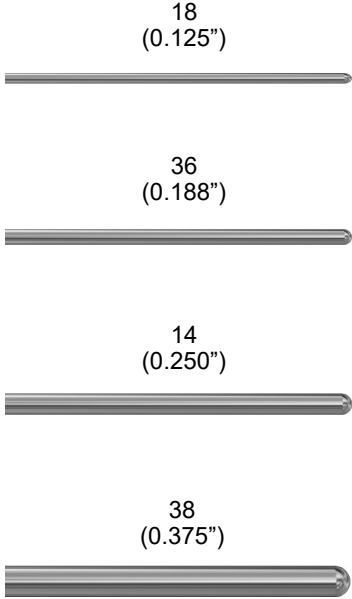
## Direct Mount Transmitter



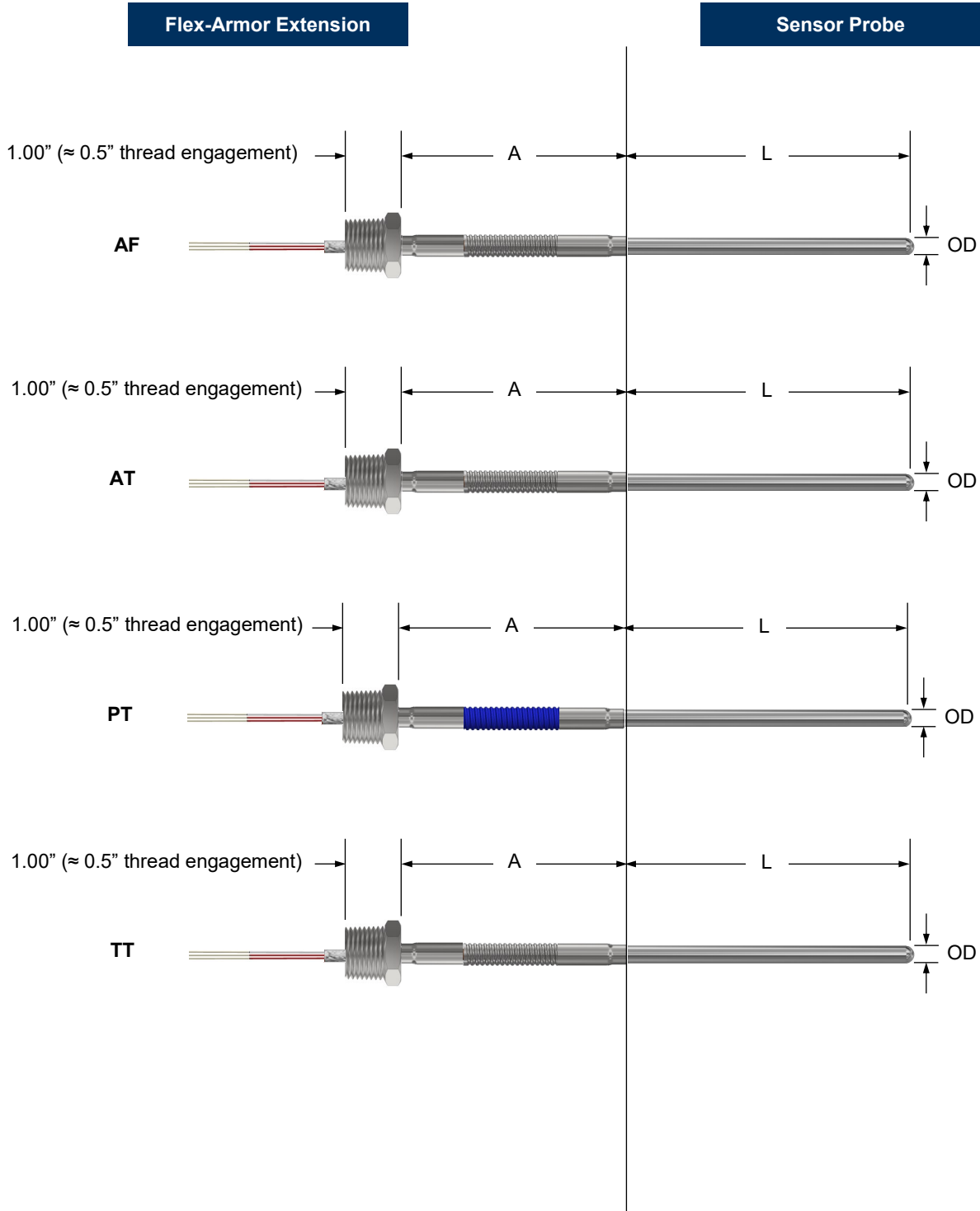
## Flex-Armor Extension



## Sensor Probe (OD)



# RT15 RTD Assembly Dimensions



**NOTE:**

1. Assemblies are supplied with 6" to 8" of lead wire

