Flame-Proof RTD Assemblies with Thermowells are made for use in IEC hazardous areas. They are designed to extinguish flames inside the device, eliminating the potential for ignition of flammable mixtures in the surrounding atmosphere. ATEX and IECEx certified assemblies are rated for Ex db IIC Gb and Ex tb IIIC Db locations for applications with process temperatures of 180 °C or less. The required thermowell is available in standard, heavy-duty, and flanged constructions. The assemblies feature 316 stainless steel sheaths. They are available with aluminum or stainless steel explosion-proof connection heads.

**Example Order Number:**

- **Configuration Code XP03**
- **Select Thermowell Part # from Thermowell Section**
- **FP**
- **8HN 75T-642E**

**ORDER CODES**

- **1-0 Agency Approval**
  - **CODE**
  - **DESCRIPTION**
  - HL06 ATEX/IECEx flame-proof-certified assembly

- **2-0 100 Ω Platinum RTD Elements α = 0.003 85 °C⁻¹**
  - **SINGLE**
  - **DUPLEX**
  - **CODE**
  - **DIAMETERS (inches)**
  - **TOLERANCE**
  - **TEMP. RANGE**
  - **R1T18SL**
  - **R1T28SL**
  - Grade B
  - (-200 to 200) °C
  - R5T18SL
  - R5T28SL
  - (1/5) Class B
  - (-30 to 150) °C
  - RBF18SL
  - RBF28SL
  - Class B
  - (-50 to 200) °C
  - RAF18SL
  - RAF28SL
  - Class A
  - (-30 to 200) °C
  - R1T18SH
  - R1T28SH
  - Grade B
  - (-200 to 600) °C
  - RAT18SH
  - RAT28SH
  - Class A
  - (-100 to 450) °C

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

- **2-1 Sheath Diameters 316 SS**
  - **CODE**
  - **DIAMETERS (inches)**
  - **48**
  - **1/4**

- **2-2 Element Connection**
  - **CODE**
  - **DESCRIPTION**
  - **2**
  - 2-wire
  - **3**
  - 3-wire
  - **4**
  - 4-wire

- **3-0 Thermowell**
  - Select thermowell part number from Thermowell Section.

- **5-1 Head Terminations**
  - **CODE**
  - **DESCRIPTION**
  - 75T-642E (4 to 20) mA HART® Field Transmitter with aluminum flame-proof housing
  - 77T-662E (4 to 20) mA HART® Field Transmitter with dual cavity aluminum flame-proof housing
  - 93 Aluminum flame-proof head
  - 94 316L stainless steel flame-proof head

- **5-2 Options**
  - **CODE**
  - **DESCRIPTION**
  - SB 1/2" NPT conduit reducer bushing, Aluminum
  - I Stainless steel tag
  - M2 M20x1.5 conduit reducer bushing, Nickel Plated Brass
  - M5 M25x1.5 conduit reducer bushing, Nickel Plated Brass
  - T-441 (4 to 20) mA isolated head-mounted transmitter
  - T-442 (4 to 20) mA HART® isolated head-mounted transmitter
  - T82-00 (4 to 20) mA dual input, isolated HART® head-mounted transmitter

- **5-3 Head Mounting Fittings**
  - **CODE**
  - **DESCRIPTION**
  - 6HN 1/2" x 1/2" NPT hex nipple
  - 6PN_ 1/2" NPT pipe nipple (specify “E” length in inches)
  - 6XU_ [1] 1/2" NPT union/nipple (specify “E” length in inches)
  - 8HN 1/2" x 1/2" NPT hex nipple
  - 8PN 1/2" NPT pipe nipple (specify “E” length in inches)
  - 8XU_ [1] 1/2" NPT union/nipple (specify “E” length in inches)

- **5-4 Element Options**
  - **CODE**
  - **DESCRIPTION**
  - FP[1] Spring-loaded element with flame path
  - FE Fixed element

- **[1]** Only available with 8HN and 8XU head mounting fittings

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