Flame-Proof, Fixed-Element Thermocouples 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. They may be installed directly in the process without being inserted into a thermowell. The assemblies are available in various sheath material, diameters sizes and ungrounded isolated junctions. They are available with or without process mountings and with aluminum or stainless steel explosion-proof connection heads.

## Configuration Code XP02

### Hazardous Location Flame-Proof-Certified, Fixed-Element Thermocouple Assemblies

**Example Order Number:**

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

- **2-0 Thermocouple Types**
  - **CODE**
  - **DESCRIPTION**
  - SINGLE: E, J, K, T
  - DUAL: EE, JJ, KK, TT

- **2-1 Sheath Diameters**
  - **CODE**
  - **DIAMETER (inches)**
  - 2: 1/8
  - 3: 3/16
  - 4: 1/4
  - 6: 3/8

- **2-2 Sheath Materials**
  - **CODE**
  - **MATERIAL**
  - **STANDARD AVAILABLE TYPES**
  - 3: Alloy 600
  - 4: 310 SS
  - 5: 446 SS
  - 8: 316 SS: E, J, K, T

- **2-3 Measuring Junction**
  - **CODE**
  - **DESCRIPTION**
  - U: Ungrounded

- **3-0 "X" Dimensions**
  - Insert three digit sheath length ("X" Dimension) in inches.

- **4-0 Sheath Mounting Fittings**
  - **CODE**
  - **DESCRIPTION**
  - 00: No Fitting

- **5-0 Head Mounting Fittings**
  - **CODE**
  - **DESCRIPTION**
  - 6HN: 1/2" x 1/2" NPT steel hex nipple 1" "E" length
  - 8HN: 1/2" x 1/2" NPT stainless steel hex nipple 1" "E" length
  - 9HP: 1/2" NPT stainless steel bushing (no process threads)
  - 8RNDC: 3/4" x 1/2" NPT stainless steel hex nipple

- **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

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