

## **HEAT TRACING RTD SENSORS WITH FIXED (NON-REPLACEABLE) ELEMENTS**

### **How to build a part number:**

To order an Applied Sensor Technologies temperature sensor, select the requirements for the categories listed below and fill in the corresponding boxes with your selection. Don't see exactly what you need? Give us a call!

STYLE

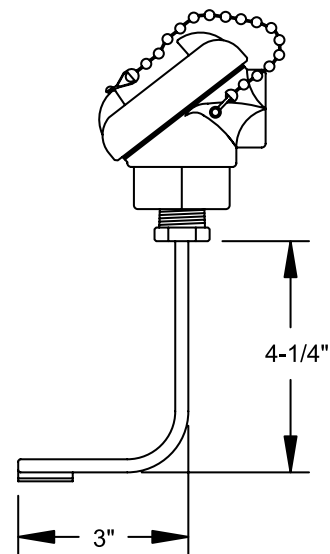
#### **ASSEMBLY STYLE**

**T1441** – Heat trace RTD with fixed, non-replaceable element; cast aluminum head with ceramic terminal block and 1/2" NPT conduit connection; head conforms to NEMA 4 requirements; sheath is stainless steel with 90° bend, 0.250" O.D. with pad for mounting to pipe.

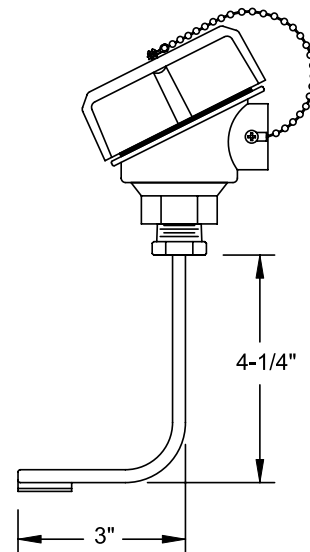
**T1441X** – Similar to T1441, except explosion-proof terminal head; approved for Class 1, Div. 1, Groups C & D.

#### **NOTES:**

- **TEMPERATURE RANGE** – minimum and maximum operating temperatures -18 to 371 °C (-0 to 700 °F)
- **SHEATH LENGTH** – 4-1/4" length from pipe to fitting standard (consult AST for additional lengths)
- **ELEMENT** – 3-wire, platinum RTD, Class B, 100 ohms at 0 °C (±0.12%); DIN 0.00385



T1441



T1441X

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## HEAT TRACING RTD SENSORS WITH REPLACEABLE ELEMENTS

### How to build a part number:

To order an Applied Sensor Technologies temperature sensor, select the requirements for the categories listed below and fill in the corresponding boxes with your selection. Don't see exactly what you need? Give us a call!

STYLE	TRANSFER PAD

#### ASSEMBLY STYLE

**T1804** – Heat trace RTD with replaceable element; cast aluminum head with ceramic terminal block and 1/2" NPT conduit connection; head conforms to NEMA 4 requirements; sheath is stainless steel with 90° bend, 0.375" O.D. with pad for mounting to pipe.

**T1804X** – Similar to T1804, except explosion-proof terminal head and sealed pad; head approved for Class 1, Div. 1, Groups C & D.

**T1844** – Similar to T1804, except terminal head is polycarbonate; conforms to NEMA 4X requirements; 6 knock-outs for wiring.

**T1855** – Similar to T1804, except dual three-wire RTD elements; cast iron head with epoxy coating conforms to NEMA 4X requirements.

#### HEAT TRANSFER PAD CURVE (to fit nominal pipe size)

**F** – Flat pad

**5** – 0.50"

**7** – 0.75"

**10** – 1"

**15** – 1.5"

**20** – 2"

**30** – 3"

**40** – 4"

**60** – 6"

**80** – 8"

#### NOTES:

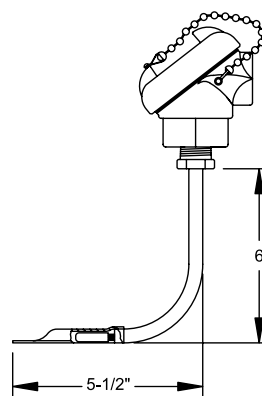
- **TEMPERATURE RANGE** – minimum and maximum operating temperatures -45 to 482°C (-50 to 900°F)
- **SHEATH LENGTH** – 5-3/4" or 6" length from pipe to fitting standard (consult AST for additional lengths)
- **ELEMENT** – 3-wire, platinum RTD, Class B, 100 ohms at 0°C (±0.12%); DIN 0.00385

#### REPLACEMENT RTD SUBASSEMBLIES:

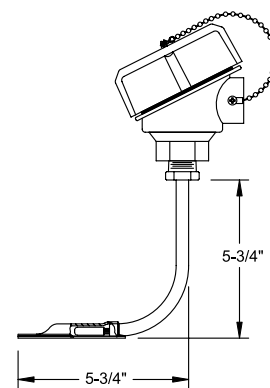
**T1805** – for T1804 and T1844 (single element)

**T1805D** – for T1855 (dual element)

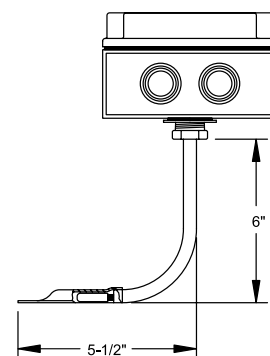
**T2588** – for T1804X (single element)



T1804/T1855



T1804X



T1844