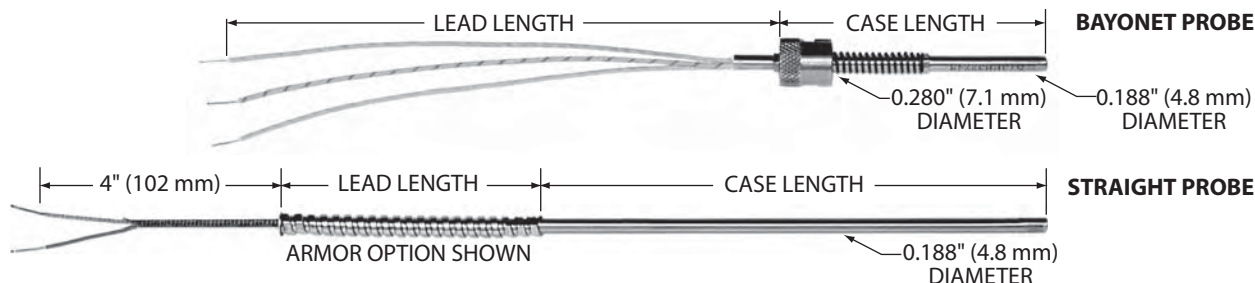


# 550°C Thermocouple Probes



PROBES

## Overview

Install these probes in steam lines, exhaust gases, or wherever you need precise readings of elevated temperatures.

Bayonet-style probes have a lockcap and spring for spring-loaded installation. See page 4-9 for more information on bayonet fittings.

## Specifications

### Temperature range:

-100 to 550°C (-148 to 1022°F).

Leadwires: 500°C (932°F) max.

**Case:** 316 stainless steel.

Minimum case length: 2.5" (63.5 mm)

Maximum case length: 48" (1220 mm), longer on special order.

**Pressure rating:** 1500 psi (103 bar).

**Vibration:** Withstands 10 to 2000 Hz at 20 G's minimum per MIL-STD-202, Method 204, Test Condition D.

**Shock:** Withstands 100 G's minimum sine wave shock of 8 milliseconds duration.

**Leads:** Solid thermocouple wire, AWG 20. Specify glass braid insulation, stainless steel overbraid, or stainless steel armor.

**Time constant:** 7 seconds typical in moving water.

**Insulation resistance:** 10 megohms minimum at 100 VDC, leads to case, ungrounded junctions only.

## Specification and order options

|                                   |  |
|-----------------------------------|--|
| TC173                             | Model number:<br>TC173: Straight probe<br>TC171: Bayonet mount   |
| J                                 | Junction type:<br>E = Chromel-Constantan<br>J = Iron-Constantan<br>K = Chromel-Alumel<br>T = Copper-Constantan |
| U                                 | Junction grounding:<br>G = Grounded<br>U = Ungrounded  |
| 45                                | Case length:<br>Specify in 0.1" increments (Ex: 45 = 4.5 inches)   |
| G                                 | Covering over leadwires:<br>G = Glass braid only<br>S = Stainless steel overbraid<br>A = Stainless steel armor |
| 24                                | Lead length in inches  |
| TC173JU45G24 = Sample part number |  |

Specifications subject to change