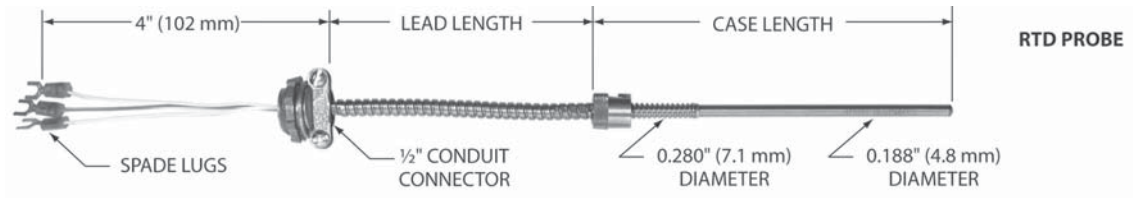


Bayonet Mount Tip-sensitive RTDs



Overview

Bayonet mounting provides easy and inexpensive spring-loaded installation of probes into solids. All models have a copper alloy tip for fast time response and increased tip sensitivity.

See page 3-9 for bayonet fittings or page 3-10 for metric fittings.

- Lockcap and spring for twist-and-release spring-loading
- Accurate sensing to 260°C (500°F)
- ATEX, IECEx and TR CU (EAC) Ex e and Ex ia options available

Specifications

Temperature range: -50 to 260°C (-58 to 500°F).

Case: Stainless steel with copper alloy tip.

Minimum case length: 3.0" (76.2 mm).

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

Time constant: 2 seconds typical in moving water.

Leads: 2, 3, or 4 leadwires, AWG 22, stranded copper with PTFE insulation, stainless steel armor, and 1/2" conduit connector. For 2-lead RTDs add 0.03 Ω per foot of combined case and lead length to element tolerance.

Insulation resistance: 1000 megohms min. at 500 VDC, leads to case.

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.

Model numbers

RTD sensing element		Model
Platinum (0.00392 TCR)	100 Ω ±0.5% at 0°C	▼S44PA
Platinum (0.00385 TCR)	100 Ω ±0.1% at 0°C (Meets EN60751, Class B)	▼S844PD
Platinum (0.00385 TCR)	100 Ω ±0.5% at 0°C	S874PE
Copper (0.00427 TCR)	10 Ω ±0.2% at 25°C	S44CA
Nickel (0.00672 TCR)	120 Ω ±0.5% at 0°C	▼S44NA

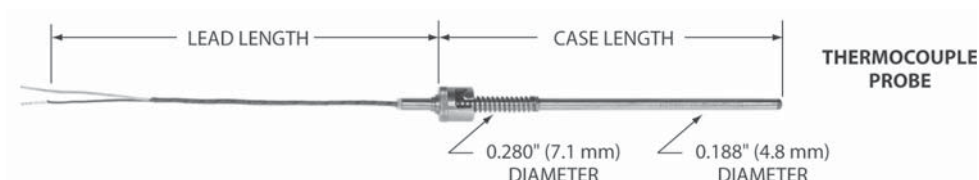
Specification and order options

S44PA	Model number from table
120	Case length: Specify in 0.1" increments (Ex: 120 = 12.0 inches) ▼: 49, 55, 120
Z	Number of leads: Y = 2 leads ▼Z = 3 leads (required for copper elements) X = 4 leads (PD only)
80	Lead length in inches ▼: 80
S44PA120Z80 = Sample part number	

▼ = STANDARD OPTIONS

Specifications subject to change

Bayonet Mount Tip-sensitive Thermocouples



Overview

Bayonet mounting provides easy and inexpensive spring-loaded installation of probes into solids. All models have a copper alloy tip for fast time response and increased tip sensitivity.

See page 3-9 for bayonet fittings or page 3-10 for metric fittings.

- Lockcap and spring for twist-and-release spring-loading
- Accurate sensing to 260°C (500°F)
- ATEX, IECEx and TR CU (EAC) Ex e and Ex ia options available

Specifications

Temperature range: -50 to 260°C (-58 to 500°F).

Case: Stainless steel with copper alloy tip.

Minimum case length: 3.0" (76.2 mm).

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

Leads: Solid thermocouple wire, AWG 20 (single) or AWG 24 (dual). Specify PTFE insulation, glass braid insulation, stainless steel braid over glass braid, or stainless steel armor over PTFE.

Time constant: Typical value in moving water:

Grounded junction: 1.5 seconds.

Ungrounded junction: 7 seconds.

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

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.

Specification and order options

TC360	Model number: ▼TC360 = Single junction ▼TC361 = Dual junction
J	Junction type: E = Chromel-Constantan ▼J = Iron-Constantan ▼K = Chromel-Alumel T = Copper-Constantan
G	Junction grounding: ▼G = Grounded ▼U = Ungrounded
30	Case length: Specify in 0.1" increments (Ex: 95 = 9.5 inches) ▼: 30, 120
A	Covering over leadwires: T = PTFE only G = Glass braid ▼A = Stainless steel armor S = Stainless steel overbraid
120	Lead length in inches ▼: 120
TC360JG30A120 = Sample part number	

▼ = STANDARD OPTIONS
Specifications subject to change