

AX-SI SERIES

SCREW-IN RTD IMMERSION PROBES

Threaded G1/2 probe with cable, Pt1000 / Pt100, Class B, EL 100 mm

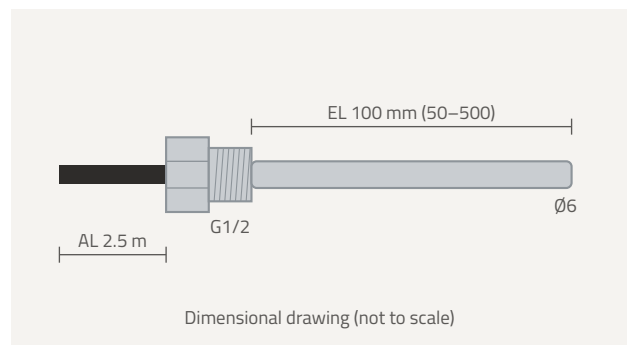
The Axiom Thermal AX-SI series screw-in RTD probes measure temperature in liquid and gaseous media, in dry and humid rooms. Threaded process connection (G1/4, G1/2, M10×1, M8), single or double element, 2/3/4-wire circuit, reliable sealing under vacuum and overpressure, optional bend protection.

Applications: Apparatus and machine building, meat processing, HVAC, industrial furnaces and heating systems, refrigeration, pipes and tanks, humid rooms, vacuum and overpressure applications.

KEY FEATURES

- Threaded process connection: G1/4, G1/2, M10×1, M8
- Single or double element, Pt1000 or Pt100, 2/3/4-wire, IEC 60751
- Class B standard; Class A / AA optional (3/4-wire)
- Protection tube Ø5 / Ø5.4 reduced / Ø6 / Ø8, insertion length 50 ... 500 mm
- Cable in PVC, silicone, PTFE or metal braiding, –50 ... +400 °C
- Reliable seal for vacuum and overpressure; bend protection and shielded cable optional

DIMENSIONS



TECHNICAL SPECIFICATIONS

Sensing element	Platinum RTD to DIN EN IEC 60751; single or double; Pt1000 or Pt100
Circuit	2 / 3 / 4-wire (double element: 2 / 3-wire only)
Tolerance class	Class B (standard); Class A, AA (3/4-wire)
Response time (Ø6, water 0.2 m/s)	t0.5 ≈ 2 s; t0.9 ≈ 6 s
Sealing	Reliable seal under vacuum and overpressure
Design	F fixed screw · L loose screw · R loose screw + reduced tube · T threaded tube
Tube diameter	Ø5 / Ø5.4 (reduced to 3.3) / Ø6 (standard) / Ø8 (M8)
Tube material	Stainless steel (Inconel optional)
Insertion length EL	50 ... 500 mm (50 mm steps, custom lengths)
Process connection	G1/4 / G1/2 / M10×1 / M8 thread
Cable length AL	2.5 m standard (0.5 ... 500 m on request)
Cable material and temp. range	PVC –5 ... +80 °C · Silicone –50 ... +180 °C · PTFE –50 ... +260 °C · Metal braiding –50 ... +400 °C

DESIGN TYPES AND CODE DESCRIPTION

Code	Meaning	Code	Meaning
F	Fixed screw connection	PT1K-W2 / W4	1 × Pt1000, 2-wire / 4-wire
L	Loose screw connection	PT1K2	2 × Pt1000 (double element)
R	Loose screw + reduced tube Ø5.4 to 3.3 mm	P100	1 × Pt100 (on request)
T	Threaded tube M8	G14 / G12	G1/4 / G1/2 thread
PT1K	1 × Pt1000, 3-wire	M10 / M8	M10×1 / M8 thread

The operating temperature range is determined by the cable material. Class A / AA requires a 3-wire or 4-wire circuit.

INSTALLATION AND WIRING

Install the probe so that the full insertion length is in the medium. Seal the thread with a suitable gasket or sealant and tighten on the hexagon only. Use a 3- or 4-wire circuit for long cables and for Class A / AA.

ORDERING CODES

Code	Description
AX-SI-F-PT1K-B-G12-100-2.5M	Fixed screw G1/2, 1 × Pt1000 3-wire, Class B, Ø6, EL 100, cable 2.5 m
AX-SI-L-PT1K-B-G12-100-2.5M	Loose screw G1/2, 1 × Pt1000 3-wire, Class B, Ø6, EL 100, cable 2.5 m
AX-SI-L-PT1K-A-G14-37-2.5M	Loose screw G1/4, 1 × Pt1000 3-wire, Class A, Ø6, EL 37, cable 2.5 m
AX-SI-R-PT1K-B-M10-27.5-2.5M	Reduced tube Ø5.4 to 3.3, M10×1, 1 × Pt1000 3-wire, Class B, EL 27.5
AX-SI-T-PT1K-B-M8-25-2.5M	Threaded tube M8 Ø8, 1 × Pt1000 3-wire, Class B, EL 25, cable 2.5 m
AX-SI-L-PT1K2-B-G12-200-2.5M	Double Pt1000 3-wire, loose screw G1/2, Ø6, EL 200
AX-SI-L-PT1K-W2-B-G12-50-2.5M	1 × Pt1000 2-wire, loose screw G1/2, Ø6, EL 50
AX-SI-L-PT1K-A-M10-250-2.5M	Class A, M10×1, Ø6, EL 250 (bend protection / shielded cable optional)

OPTIONS FOR OEM AND PRIVATE LABEL

Circuit / accuracy	2 / 3 / 4-wire, Class B, A, AA
Tube	Ø5, Ø5.4 reduced, Ø6, Ø8; stainless steel or Inconel
Length	EL 50 ... 500 mm, cable 0.5 ... 500 m
Cable	PVC, silicone, PTFE, metal braiding, shielded

- Specifications subject to change without notice.
- OEM and private-label versions available. MOQ, lead time and price on quotation.

Request a quote or samples: info@axiomthermalgroup.com · axiomthermalgroup.com/contact-us