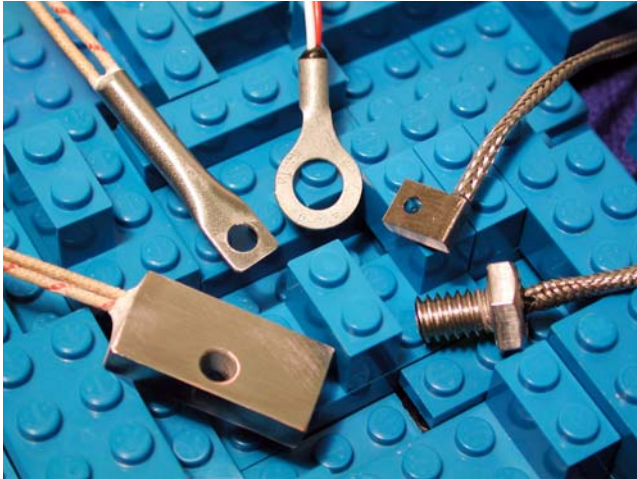


Bolt-on Temperature Sensors

Removable and reusable



Overview

Bolt-on temperature sensors are designed for easy installation in industrial and commercial environments. The sensors can be mounted on machines, against process pipes, or embedded directly into a machined part. Threaded fasteners install in seconds and can be easily removed for installation at another location.

These sensors are ideal for process control measurements, test and verification of existing systems, and retrofitting existing machines. Standard designs allow prototyping without high setup costs, while significant discounts are available for large quantities.

Standard platinum and nickel RTD elements provide stable and reliable output compatible with most control and monitoring systems. Physically interchangeable designs allow you to easily customize your installation to different instrumentation. Minco can also provide custom RTD, thermistor or thermocouple elements in these packages, or specialized case designs to meet your application needs.

- Removable and reusable
- Wide temperature range
- Configurations to fit most applications
- Standard 100 Ω platinum, 1000 Ω platinum and 100 Ω nickel elements

Specifications

Time constant: Less than 10 seconds in moving water.

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

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

Element specifications*		Code
Platinum 385,	100 Ω ±0.12% at 0°C (EN60751, Class B)	PD
Platinum 385,	100 Ω ±0.36% at 0°C	PE
Platinum 385,	1000 Ω ±0.12% at 0°C	PF
Platinum 375,	1000 Ω ±0.12% at 0°C	PW
Platinum 385,	10000 Ω ±0.12% at 0°C	PS
Nickel 618,	100 Ω ±0.22% at 0°C (DIN43760 NI100, Class B)	NB
Nickel 672,	120 Ω ±0.50% at 0°C	NA
Nickel 618,	1000 Ω ±0.22% at 0°C	NJ

* See descriptions for element options on each model.

Specification options

S101732	Model number
PD	Element code from table
3	Number of leads: 2 or 3: 2 leads not recommended for PD models
S	Leadwire covering: G = Mica-glass (S101730 and S101731) T = PTFE (S100722, S101732, S101733, S101734, and S101797) S = Stainless steel braid over PTFE insulated leads (S100722, S101732, S101733, S101734, and S101797)
40	Leadwire length in inches: 40" (1000 mm) standard
S101732PD3S40 = Sample part number	

Bolt-on Temperature Sensors

-50 to 180°C (-58 to 356°F)

Model S100722

Dimensions

W × L × T (max.):

0.51 × 1.97 × 0.079" (13 × 50 × 2 mm)

with Ø 0.130" (3.3 mm) holes spaced 1.47" (37.3 mm) apart

Element options: PD, PF, PW, PS, NB, NA, NJ

Case material: High temperature epoxy glass

Leadwire: AWG 22, PTFE insulated, SS braid option



-50 to 260°C (-58 to 500°F)

Model S101732

Dimensions W × L × T (max.):

0.265" (6.7 mm) ID ring lug

Element options: PD, PE, PF, NB

Case material: Nickel plated copper

Leadwire:

2 lead: AWG 24,

3 lead: AWG 26, PTFE insulated



-70 to 500°C (-94 to 932°F)

Model S101730

Dimensions W × L × T (max.):

0.50 × 1.00 × 0.188"

(12.7 × 25.4 × 4.8 mm)

with 0.161" (4.1 mm) diameter hole

Element options: PD, PF, PW

Case material: Stainless steel

Leadwire: AWG 22, Mica-glass insulated



Model S101733

Dimensions W × L × T (max.):

0.50 × 0.375 × 0.188"

(12.7 × 9.5 × 4.8 mm)

with 0.166" (4.2 mm) hole

Element options: PD, PE, PF, NB

Case material: Stainless steel

Leadwire:

2 lead: AWG 24,

3 lead: AWG 26, PTFE insulated with SS braid cover



Model S101731

Dimensions W × L × T (max.):

0.29 × 1.25 × 0.188"

(7.4 × 31.8 × 4.8 mm)

with 0.161" (4.1 mm) hole

Element options: PD, PF, PW

Case material: Stainless steel

Leadwire: AWG 22, Mica-glass insulated



Model S101734

Dimensions W × L × T (max.):

¼ - 20 × ¾" long thread

with 7/16" hex head

Model S101797

Dimensions W × L × T (max.):

M6 × 1 thread, 10 mm long, with 10 mm hex

Element options: PD, PE, PF, NB

Case material: Stainless steel

Leadwire:

2 lead: AWG 24,

3 lead: AWG 26, PTFE insulated with SS braid cover



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