

Bolt-On Temperature Sensors



- ◆ Removable and reusable
- ◆ Temperature limits to 500°C maximum and -70°C minimum
- ◆ Configurations to fit most applications
- ◆ Standard 100 Ω platinum, 1000 Ω platinum and 100 Ω nickel elements






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 OEM 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.

The 500°C versions feature high temperature mica-glass insulated leads and the 260°C models are built with flexible TFE Teflon insulated leads. All models are available with optional stainless steel braid over the leadwires to provide optimum protection from abrasion and breakage.

Standard models

| Model | Style | Dimensions | Temperature range | Element options | Case material | Leadwire insulation |
|---------|---|---|--------------------------------|-----------------|----------------------|---|
| S101730 |  | 0.188 x 0.50 x 1.00" (4.8 x 12.7 x 25.4mm) with 0.204" (5.2mm) diameter hole | -94 to 932°F (-70 to 500°C) | PD, PF, PW | Stainless steel | AWG 22 (0.355 mm ²) Mica-glass insulated |
| S101731 |  | 0.188 x 0.29 x 1.25" (4.8 x 7.4 x 31.8mm) with 0.161" (4.1mm) hole | -94 to 932°F (-70 to 500°C) | PD, PF, PW | Stainless steel | AWG 22 (0.355 mm ²) Mica-glass insulated |
| S101732 |  | 0.265" (6.7mm) ID ring lug | -58 to 500°F (-50 to 260°C) | PD, PF, NB | Tin plated copper | AWG 26 (0.141mm ²) Teflon insulated |
| S101733 |  | 0.188 x 0.375 x 0.50" (4.8 x 9.5 x 12.7mm) with 0.161" (4.1mm) hole | -58 to 500°F (-50 to 260°C) | PD, PF, NB | Stainless steel | AWG 26 (0.141mm ²) Teflon insulated |
| S101734 |  | 1/4-20 x 3/8" long thread with hex head | -58 to 500°F (-50 to 260°C) | PD, PF, NB | Stainless steel | AWG 26 (0.141mm ²) Teflon insulated |
| S101797 | | M6 x 1 thread, 10mm long, with 10mm hex | | | | |

How to order

| | |
|----------------------------|--|
| S101732 | Model number from table above |
| PD | RTD element code PD = 100 Ω ± 0.12% platinum TCR = 0.00385 (per IEC751) PF = 1000 Ω platinum TCR = 0.00385 (10x IEC751) PW = 1000 Ω platinum TCR = 0.00375 (HyCal/Honeywell special) NB = 100 Ω nickel TCR = 0.00618 (per IEC 751) |
| 3 | Number of leads 2 or 3 leads available for all models |
| S | Leadwire covering T = Teflon (S101732, S101733 and S101734) G = Mica-glass (S101730 and S101731) S = Stainless steel braid over insulated leads |
| 40 | Leadwire length in inches 40" (1000 mm) standard |
| S101732PD3S36 ← Sample P/N | |

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.

MINCO
ISO 9001

Minco Products, Inc. (Main Office)

7300 Commerce Lane
Minneapolis, MN 55432-3177
U.S.A.

Tel: (763) 571-3121
Fax: (763) 571-0927

Stock order desk:
Tel: (763) 571-3123
Fax: (763) 571-9142



Internet:
sales@minco.com
www.minco.com

Minco S.A.

Usine et Service
Commercial, Z.I.
09310 Aston, France
Tel: (33) 5 61 03 24 01
Fax: (33) 5 61 03 24 09

Minco EC

Hirzenstrasse 2
CH-9244 Niederuzwil
Switzerland
Tel: (41) 71 952 79 89
Fax: (41) 71 952 79 90