The Series S2-1 Surface Mount Temperature Sensors provide a cost effective and reliable solution for surface contact temperature measurement of conditioned water pipes, low pressure steam or refrigerant lines. The sensors are ideal for applications where immersion wells are not practical to install. Models are constructed with a 1” (25 mm) 304 SS probe and a 24” stranded etched Teflon® leads.

**SPECIFICATIONS**

**Accuracy:**
- Platinum RTD: ±0.1% @ 32°F (0°C), alpha 385 per DIN 43760;
- Nickel RTD: ±0.5°F @ 70°F (21.1°C);
- Balco®: ±0.5°F @ 70°F (21.1°C);
- Thermistor: ±0.2°C interchangeable @ 77°F (25°C).

**Operating Temperature:** -40 to 250°F (-40 to 125°C).

**Probe Diameter:** 1/4” (6.3 mm).

**Probe Length:** 1” (25 mm).

**Probe Material:** 304 SS.

**Model** | **Sensor Type**
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S2-11 | Pt 100Ω RTD
S2-12 | Pt 100Ω RTD
S2-13 | Ni 100Ω RTD
S2-14 | 100Ω Balco® RTD
S2-15 | 10 kΩ Type II Thermistor
S2-16 | 3 kΩ NTC Thermistor
S2-17 | 5 kΩ NTC Thermistor
S2-18 | 100 kΩ NTC Thermistor
S2-19 | 20 kΩ NTC Thermistor
S2-1A | 225Ω NTC Thermistor
S2-1B | 10kΩ Type III NTC Thermistor

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The Series TE-SNW Surface Temperature Sensor non-intrusively measures the process temperature in hot and cold water loops in buildings. An adjustable metal strap can tightly fit around 2 through 6” pipe sizes, allowing the surface area of the copper plate on the sensor to make good contact with the pipe surface. In order to work with most common building controllers, the output of the sensor can be chosen from 6 different RTD and Thermistor curves. Additional features include a quarter turn twist off cap that is chained to the housing to prevent it from getting lost, and multiple knockout locations and sizes to reduce installation time.

**SPECIFICATIONS**

**Accuracy:**
- Thermistor Temperature Sensor: ±0.2°C @ 25°C (±0.36°F @ 77°F);
- RTD Temperature Sensor: DIN Class A ±0.15°C @ 0°C (±0.28°F @ 32°F).

**Temperature Limits:** Operating: -32 to 240°F (-35.5 to 115.5°C).

**Sensor Curves:** See Resistance vs. Temperature Table (page 299).

**Housing Material:** Meets UL 94 V-0 polycarbonate plastic, NEMA 3R.

**Weight:** 7 oz (198 g).