



## SciLog® SciTemp® Sensors

- sensor technology
- pre-calibrated single-use

The only pre-calibrated, single-use temperature sensors with a gamma-stable memory device that stores data of all calibration, and sensor specific information.

The SciLog® SciTemp® provides high precision temperature sensing capabilities in a compact, disposable package at a low price point. Each sensor is pre-programmed and barcoded with a unique ID for easy traceability and data documentation when combined with the SciLog SciDoc software. Factory calibration data is also stored on each sensor's chip for out-of-box, plug and play use. The SciTemp® comes in 5 different sizes to fit a variety of tubing sizes: luer,  $\frac{3}{8}$ " barb,  $\frac{1}{2}$ " barb,  $\frac{3}{4}$ " tri-clover and 1" tri-clover ladsch.

### Features and Benefits

- Pre-calibrated
- NIST-traceable
- Certified calibration
- Gamma-stable
- NaOH stable
- Autoclave stable
- Comprehensive customer support



Note: SciLog® & SciTemp® is a registered trademark of Parker Hannifin Corporation.

### The SciTemp fully integrates and optimizes most existing systems involving...

- Filtration
- Chromatography
- Fermentation
- Bags and manifolds

### SciTemp® Range & Accuracy

- Temperature range: 4 °C to 70 °C
- Temperature accuracy:  $\pm 0.5^\circ\text{C}$



## Sensor Specifications

### Sterilizability

- Can be sanitized IPA 70% NaOH (0.1N - 1.0N)
- Autoclavable: (1x)
- Gamma stable: 25-45 kGy

### Material, Fluid Contact

- Medical grade polysulphone
- Meets USP Class VI and FDA 21CFR177.1520
- All wetted materials are made of animal-free compounds

### Sensor Type

- Thermistor
- Epoxy coated
- 2252 Ohms

### Sensor Microchip

- EPROM
- Stored sensor ID and calibration factor

### Sensor Connector and Cables

- Dust and water proof IP67



### Size, Part Codes and Specifications

Connector Type	Part Code (Packs of 5)	Compatible Tubing Sizes	Max. Flow Rate*	Max. Pressure
Luer	080-799PSX-5 080-799PSX-5-G	ID 0.03" to 0.31"	1 L / min	60 psi
3/8" Barb	080-794PSX-5 080-794PSX-5-G	ID 0.31" to 0.38"	8 L / min	60 psi
1/2" Barb	080-795PSX-5 080-795PSX-5-G	ID 0.50"	17 L / min	60 psi
3/4" Tri-Clover (TC)	080-796PSX-5 080-796PSX-5-G	Tubing with 3/4" TC	31 L / min	60 psi
1" Tri-Clover 'Ladish'	080-797PSX-5 080-797PSX-5-G	Tubing with 1" TC Ladish	60 L / min	60 psi

-G = Gamma parts

\* Maximum flow rate @ 1 psi

## Monitor Specifications

### Sensor Inputs

- Up to two simultaneously

### Sensor Readout

- T1 and T2
- Differential temperature (DT)

### Analog Outputs

- 4-20 mA outputs for T1 and T2
- 18 bit resolution

### Digital Output

- RS-232

### Alarm Outputs

- 3 TTL switches
- User-selectable hi/lo pressure limit settings for T1, T2 and DT

### Power Supply

- 115/230 VAC



Description	Part Code
SciTemp Sensor Monitor (includes two 6 ft cable connections)	080-790
DINTemp (includes two 6 ft cable connections)	080-791
Replacement Parts	Part Code
Sensor Cable (Sensor to Monitor) - 6 ft	090-0491
Sensor Cable (Sensor to Monitor)- 12 ft	090-0491-12