



## SciLog SciTemp® Sensors

- sensor technology
- pre-calibrated single-use or extended 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,  $\frac{3}{4}$ " TC (Tri-Clover), and 1" TC (Tri-Clover Ladish).

### Features and Benefits

- Pre-calibrated
- NIST-traceable
- Certified calibration
- Extended-use sensors (optional)
- Gamma-stable
- NaOH stable
- Autoclave stable
- Comprehensive customer support



Note: SciTemp® is a registered trademark of Parker Hannifin Ltd.

## 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)  
(1x)
- Autoclavable: (1x)
- Gamma stable: 25-45 kGy

### Material, Fluid Contact

- Medical grade polysulfone
- 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



SciTemp® Family



Luer


 $\frac{3}{8}$ " Barb

 $\frac{1}{2}$ " Barb

 $\frac{3}{4}$ " Tri-Clover


1" Tri-Clover 'Ladish'

### Size, Part Codes and Specifications

Connector Type	Part Code (Packs of 5)	Compatible Tubing Sizes	Max. Flow Rate*	Max. Pressure
Luer	080-799PSX-5	ID 0.03" to 0.31"	1 litres / min	60 psi
$\frac{3}{8}$ " Barb	080-794PSX-5	IS 0.31" to 0.38"	8 litres / min	60 psi
$\frac{1}{2}$ " Barb	080-795PSX-5	ID 0.50"	17 litres / min	60 psi
$\frac{3}{4}$ " Tri-Clover (TC)	080-796PSX-5	Tubing with $\frac{3}{4}$ " TC	31 litres / min	60 psi
1" Tri-Clover 'Ladish'	080-797PSX-5	Tubing with 1" TC Ladish	60 litres / min	60 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	080-790
Sensor Cable (Sensor to Monitor) - 6 ft	090-0491
Sensor Cable (Sensor to Monitor)- 12 ft	090-0491-12