

SciTemp™ Temperature Sensors* Scale-Up or Scale-Down



- Filtration
- Chromatography
- Fermentation
- Bag Manifolds

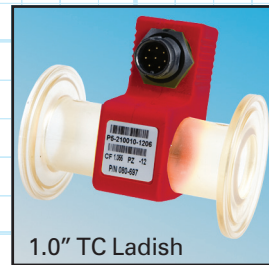
SciTemp Cost Effective Temperature Flow Cells with Stored Sensor ID & Calibration Data

SciTemp monitors 2 temperature sensors and displays T1, T2 and Differential Temperature (DT).

- Single-Use or Clean & Reuse
- Stored Sensor ID Cal Data
- Bar Code Traceability
- Eliminate Cross Contamination
- No Dead or Hold-up Volume
- Sanitization with NaOH, etc.
- Autoclavable Polysulfone Version
- Pre-Sterilized Flow Cells Available
- Real-Time Documentation & Graphing
- Data with Date/Time Stamp

Call **800-955-1993** to order SciLog in-line, single-use flow cells and SciLog's Automated, Optimized Bioprocessing Systems.

*Patents Pending



SciLog
SciTemp Monitor

SciTemp: 0.11 C ALARMS: HT= 0.08 C, LT= 0.08 C
HT= 0.08 C, LT= 0.08 C, Setpt: 0=11.0019750000, CF= 1.004

| Time | Temp 1 | Temp 2 | Diff. Temp | Alarm |
|----------|--------|--------|------------|-------|
| 00:00:00 | 23.90 | 22.90 | 1.00 | |
| 00:00:05 | 23.90 | 22.90 | 1.00 | |
| 00:00:10 | 23.90 | 22.90 | 1.00 | |
| 00:00:15 | 23.90 | 22.90 | 1.00 | |
| 00:00:20 | 23.90 | 22.90 | 1.00 | |
| 00:00:25 | 23.90 | 22.90 | 1.00 | |

Real-Time Data Collection

Try SciLog's family of pre-calibrated, single-use, in-line sensors*: Conductivity, Temperature, Pressure. Scale-up or Scale-down.

Contact SciLog for Sterilization options, such as Gamma, ETO, etc.

SciLog®

Intelligent Bioprocessing Systems

SciTemp Sensor Specifications: Flow Rate & Pressure Limits

| CONNECTOR TYPE | PART # Packs of 5 | Compatible TUBING SIZES | Max FLOW RATE* | Max PRESSURE |
|----------------------|-------------------|--------------------------|----------------|--------------|
| Luer | 080-799PS-5 | ID 0.03" to 0.31" | 1 liters/min | 60 psi |
| 3/8" Barb | 080-794PS-5 | ID 0.31" to 0.38" | 8 liters/min | 60 psi |
| 1/2" Barb | 080-795PS-5 | ID 0.50" | 17 liters/min | 60 psi |
| 3/4" Tri-Clover (TC) | 080-796PS-5 | Tubing with 3/4" TC | 31 liters/min | 90 psi |
| 1.0" TC "Ladish" | 080-797PS-5 | Tubing with 1" TC Ladish | 60 liters/min | 90 psi |

*At 1.0 psi pressure drop across SciTemp flow-through sensor.

SciTemp Flow-Thru Temperature Sensor Specifications

Material, Fluid Contact: Medical Grade Polysulfone meets USP Class VI and FDA 21CFR177.1520. All Wetted Materials are made of Animal-Free Compounds. Compatible with Most Sanitizing Agents such as NaOH, Hypochlorite. Sensors can be repeatedly autoclaved.

Sensor Type: Thermistor, Epoxy-Coated, 2252 Ohms.

Temperature Range: -40 to +150 °C.

Temperature Accuracy: ± 0.10 °C in the 4.00 °C to 70.00 °C Range.

Temperature Display Resolution: Two Decimal Places: 0.01 °C.

Sensor Cable & Connectors: Lockable & Waterproof.

Sensor Microchip: EPROM, Stored Sensor ID and Cal Factor.

SciTemp Temperature Monitor (Part #080-790) Specifications

Power Supply: Wall Transformer, 115/230 VAC.

Monitor Display: 2 Lines, 20 Characters each, Backlit.

Data Entry: Membrane Switch, 6 Keys.

Standard Digital I/O: RS-232.

Sensor Inputs: Up to Two SciTemp Temperature Sensors (T1 and T2) Hookups.

Sensor Readout: Display of Sensors T1 and T2 as well as Differential Temperature, DT

Barcode Scanner Hook-up: Optional, Allows Sensor ID and Cal-Factor to be scanned into Monitor.

Optional Monitor I/O

Analog Outputs: Three, 4-20 mA Outputs for Sensors T1, T2, and DT, 18 Bit Resolution.

Alarm Outputs: 3 TTL Switches, User-Selectable Hi/Lo Temperature Limit Settings for Sensors T1, T2 and DT.

Software: User-Selectable Parameters

Temperature Units: °C, °F.

Temperature Range, High: 100 °C, Analog Out at 100% (default).

Temperature Range, Low: 0 °C, Analog Out at 0% (default).

Serial Com: BR=9600, WL=8, SB=2, PT=N.

Alarm Outputs: T1 Hi/Lo
T2 Hi/Lo
DT Hi/Lo

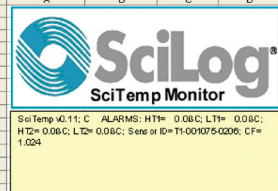
Print Time: User-Selectable, 1 to 60 Seconds.

Time/Date: All Data Printout with Time/Date Stamp.

Parameter Lock-Out: Requires Password.

Re-Cal: Custom Temperature Calibration.

SciDoc Real-Time Documentation/Graphing

| | A | B | C | D | E | F | G | H |
|----|---|--------|--------|------------|-----------------------|---|---|---|
| 1 |  | | | | Operator | | | |
| 2 | | | | | Date | | | |
| 3 | | | | | Time | | | |
| 4 | | | | | Product Batch Number | | | |
| 5 | | | | | Product Description | | | |
| 6 | | | | | Conditions | | | |
| 7 | | | | | Membrane Manufacturer | | | |
| 8 | | | | | Membrane Type | | | |
| 9 | | | | | Membrane Lot Number | | | |
| 10 | Membrane Serial Number | | | | | | | |
| 11 | Membrane Pore Size | | | | | | | |
| 12 | Membrane Surface Area, sq M | | | | | | | |
| 13 | ComPort Setup Operator Info Clear Data | | | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | | | | |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | Time | Temp 1 | Temp 2 | Diff. Temp | Alarm | | | |
| 20 | 00:00:00 | 23.90 | 22.90 | 1.00 | | | | |
| 21 | 00:00:00 | 23.90 | 22.90 | 1.00 | | | | |
| 22 | 00:00:05 | 23.90 | 22.90 | 1.00 | | | | |
| 23 | 00:00:10 | 23.80 | 22.80 | 1.00 | | | | |
| 24 | 00:00:15 | 23.80 | 22.80 | 1.00 | | | | |
| 25 | 00:00:20 | 23.80 | 22.80 | 1.00 | | | | |
| 26 | 00:00:25 | 23.80 | 22.80 | 1.00 | | | | |
| 27 | 00:00:30 | 23.80 | 22.80 | 1.00 | | | | |
| 28 | 00:00:35 | 23.80 | 22.80 | 1.00 | | | | |
| 29 | 00:00:40 | 23.80 | 22.80 | 1.00 | | | | |
| 30 | 00:00:45 | 23.80 | 22.80 | 1.00 | | | | |
| 31 | 00:00:50 | 23.80 | 22.80 | 1.00 | | | | |
| 32 | 00:00:55 | 23.80 | 22.80 | 1.00 | | | | |
| 33 | 00:01:00 | 23.80 | 22.80 | 1.00 | | | | |
| 34 | 00:01:05 | 23.80 | 22.80 | 1.00 | | | | |
| 35 | 00:01:10 | 23.80 | 22.80 | 1.00 | | | | |
| 36 | 00:01:15 | 23.80 | 22.80 | 1.00 | | | | |
| 37 | 00:01:20 | 23.80 | 22.80 | 1.00 | | | | |
| 38 | 00:01:25 | 23.80 | 22.80 | 1.00 | | | | |
| 39 | 00:01:30 | 23.80 | 22.80 | 1.00 | | | | |