

SciCon™ Conductivity Sensors*

Pre-Calibrated Single-Use or Reuse



- Aseptic Filtration
- Chromatography
- Reverse Osmosis
- UltraPure Water
- Bag Manifolds

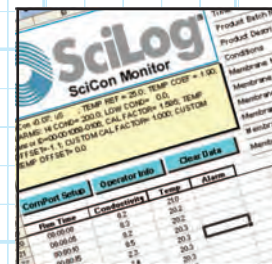
Pre-Calibrated Conductivity Flow Cells With Stored Sensor ID and Cal Data

Although designed for single-use applications, SciCon Conductivity Sensors withstand multiple test/cleaning cycles and, if required, can be easily re-calibrated.

- **Pre-Calibrated**
- **NIST-Traceable**
- **Certified Calibration**
- **Gamma-stable**
- **Autoclavable**
- **NaOH stable**
- **Real-Time Documentation**

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

*Patents Pending



Try SciLog's family of pre-calibrated, single-use, in-line sensors*: **Conductivity, Temperature, Pressure. Scale-up or Scale-down.7**



SciCon Conductivity Flow Cells Specifications

CONNECTOR TYPE	PART # Packs of 5	Compatible TUBING SIZES	Max FLOW RATE*	Max PRESSURE
Luer	080-599PSX-5	ID 0.03" to 0.31"	1 liters/min	60 psi
3/8" Barb	080-594PSX-5	ID 0.31" to 0.38"	8 liters/min	60 psi
1/2" Barb	080-595PSX-5	ID 0.50"	17 liters/min	60 psi
3/4" Tri-Clover (TC)	080-596PSX-5	Tubing with 3/4" TC	31 liters/min	60 psi
1.0" TC "Ladish"	080-597PSX-5	Tubing with 1" TC Ladish	60 liters/min	60 psi

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

SciCon Flow-thru Conductivity Sensor Specifications

Material, Fluid Contact: Natural Polypropylene (PP) or Polysulfone (PS) w/Gold Electrodes; Medical Grade meets USP Class VI and FDA 21 CFR 177.1520. All Wetted Materials are made of Animal-Free Compounds. Compatible with Most Sanitizing Agents such as NaOH, Hypochlorite, for Flow Cell Sanitization. Can be Sterilized: Autoclavable and Gamma Stable.

Sensor Type: 4-Electrode Conductivity Cell; Factory Calibrated, Ready to use.

Conductivity Range: 1 μ S/cm to 200 mS/cm; **Resolution:** 0.1 μ S/cm.

Accuracy: High Range: \pm 0.25 mS in the 10 - 200 mS range; Low Range: \pm 3 μ S in the 0 - 100 μ S range.

Temperature Range: 4 - 50° C.

Temperature Probe: Thermistor, Factory Calibrated

Temperature Accuracy: \pm 0.5° C.

Sensor Microchip: EPROM, stores Device ID, Cell Constant, Temp Offset & Factory Cal Data

Pre-Calibration: 12.88 mS at 25.0° C., using standard traceable to NIST.

Sensor Connector & Cables: Lockable & Waterproof.

SciCon Monitor (Part# 080-590) Specifications

ELECTRICAL

Operating Mode: Auto range display of conductivity from 200 mS/cm to 1 μ S/cm; Temperature: 0 - 50° C, resolution 0.1° C.

Sensitivity Range: 1 μ S/cm to 200 mS/cm; **Resolution:** 0.1 μ S/cm.

Accuracy: High Range: \pm 0.25 mS in the 10 - 200 mS range; Low Range: \pm 3 μ S in the 0 - 100 μ S range.

Analog Output: 4 to 20 mA, 18 Bit Resolution.

Digital Output: RS-232.

Alarm Outputs: 4 TTL, Hi/Lo Conductivity, Hi/Lo Temperature.

Power Supply: Wall Transformer (Lab Option); 115/230 VAC (Process Option).

Display: 2 Lines, 20 characters each, backlit.

Data Entry: 6 keys.

SOFTWARE — SELECTABLE PARAMETERS

Conductivity Unit: μ S, mS, PPM of KCl, PPM of NaCl, 442.

User Selectable 4-20mA Span: 0% = 0 and 100% = 200 mS or any other Lo/Hi pair of conductance values. e.g. 5,000 μ S to 80,000 μ S.

Temperature 4-20mA in 0-100° C.

Automatic Temperature Compensation

Edit Mode: Ability to adjust

- Reference Temperature
- Conductivity Value for a given Std Solution
- Serial Com Baud Rate
- Alarms

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

Lock-Out: On/Off, Requires Password (optional).

Re-Cal: Custom Calibration of Sensors.

The screenshot shows the SciLog SciCon Monitor software interface. It features a data table with columns for Run Time, Conductivity, Temp, and Alarm. The table contains 18 rows of data. To the right of the table is a configuration panel with fields for Operator, Date, Time, Product Batch Number, Product Description, Conditions, Membrane Manufacturer, Membrane Type, Membrane Lot Number, Membrane Serial Number, Membrane Pore Size, and Membrane Surface Area, sq M. Below the configuration panel are buttons for ComPort Setup, Operator Info, and Clear Data.

Run Time	Conductivity	Temp	Alarm
00:00:00	0.2	21.0	
00:00:05	0.3	20.2	
00:00:10	0.2	20.2	
00:00:15	0.5	20.3	
00:00:20	2.3	20.3	
00:00:25	2.4	20.3	
00:00:30	2.2	20.3	
00:00:35	2.3	20.3	
00:00:40	2.0	20.3	
00:00:45	2.2	20.3	
00:00:50	1.9	20.3	
00:00:55	2.1	20.3	
00:01:00	1.9	20.2	
00:01:05	2.0	20.2	
00:01:10	1.9	20.2	
00:01:15	1.9	20.2	
00:01:20	1.0	20.2	
00:01:25	1.9	20.2	
00:01:30	1.9	20.2	

SciDoc screenshot