



## SciLog® SciCon® Sensors

- sensor technology
- pre-calibrated single-use or extended use

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

The SciLog® SciCon® combines temperature sensing capabilities with conductivity sensing capabilities in a compact, disposable, single-use 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 SciCon® 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 Ladish.

### Features and Benefits

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



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

## The SciCon® fully integrates and optimizes most existing systems involving...

- Aseptic filtration
- Chromatography
- Reverse osmosis
- Ultrapure water
- Bags and manifolds

### SciCon® Range & Accuracy

- High range: 0.1 - 200 mS range ( $\pm 0.25$  mS Accuracy)
- Low range: 0 - 100  $\mu$ S range ( $\pm 3$   $\mu$ S Accuracy)



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

### Sensor Type

- 4-Electrode conductivity cell

### Temperature Probe

- Thermistor

### Sensor Microchip

- EPROM
- Stored sensor ID and calibration factor

### Sensor Connector and Cables

- Dust and water proof IP67



SciCon® 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	080-599PSX-5	ID 0.03" to 0.31"	1 L / min	60 psi
$\frac{3}{8}$ " Barb	080-594PSX-5	ID 0.31" to 0.38"	8 L / min	60 psi
$\frac{1}{2}$ " Barb	080-595PSX-5	ID 0.50"	17 L / min	60 psi
$\frac{3}{4}$ " Tri-Clover (TC)	080-596PSX-5	Tubing with $\frac{3}{4}$ " TC	31 L / min	60 psi
1" Tri-Clover 'Ladish'	080-597PSX-5	Tubing with 1" TC Ladish	60 L / min	60 psi

\* Maximum flow rate @ 1 psi

## Monitor Specifications

### Sensitivity Range

- 1  $\mu$ S/cm to 200 mS/cm
- 0.1  $\mu$ S/cm resolution

### Operating Mode / Auto Range Display

- Conductivity: 1  $\mu$ S/cm to 200 mS/cm
- Temperature: 0°C to 50°C

### Analog Outputs

- 4-20 mA outputs
- 18 bit resolution

### Digital Output

- RS-232

### Alarm Outputs

- 4 TTL switches
- User-selectable hi/lo conductivity
- User-selectable hi/lo temperature

### Power Supply

- 115/230 VAC



Description	Part Code
SciCon® Sensor Monitor	080-590 (110V)
	081-590 (220V)
Sensor Cable (Sensor to Monitor) - 6 ft	090-0491
Sensor Cable (Sensor to Monitor)- 12 ft	090-0491-12

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