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 SciCon II combines temperature sensing capabilities with conductivity sensing capabilities in a compact, disposable, single-use package. Each sensor is pre-programmed and barcoded with a unique ID for easy traceability and data documentation when combined with the SciDoc software.

Factory calibration data is stored on each sensor’s chip for out-of-box plug and play use. The data can be accessed via the SciDoc software, direct to your PC via the SciCon II Monitors, or as part of an integrated platform via a DIN card.

The SciCon II comes in five different sizes to fit a variety of tubing sizes.

Features and Benefits

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

SciCon II Range & Accuracy

High range:
- With 95% confidence, measurement will be ±5% of reading for 100 µS - 150 mS (extended to 200 mS)

Low range:
- With 95% confidence, measurement will be ±4 µS for 0-100 µS

SciCon II Conductivity Sensor Data High Range

SciCon II Conductivity Sensor Data Low Range
Sensor Specifications

Sterilizability
- Can be sanitized with IPA 70%
- Autoclavable 3x
- Gamma stable 25-45 kGy*

Material
- Fluid contact materials (polysulfone, gold pins, <0.1% silicone) meet:
  - Polysulfone
  - USP class VI
  - 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

Size, Part Codes and Specifications

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Non-Gamma Irradiated Part Code (Packs of 5)</th>
<th>Gamma Irradiated Part Code (Packs of 5)</th>
<th>Compatible Tubing Sizes</th>
<th>Max. Flow Rate*</th>
<th>Max. Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luer</td>
<td>206-151</td>
<td>206-151-G</td>
<td>ID 0.03&quot; to 0.31&quot;</td>
<td>1 L / min</td>
<td>60 psi **</td>
</tr>
<tr>
<td>3/8&quot; Barb</td>
<td>206-152</td>
<td>206-152-G</td>
<td>ID 0.31&quot; to 0.38&quot;</td>
<td>8 L / min</td>
<td>60 psi **</td>
</tr>
<tr>
<td>3/8&quot; Barbell</td>
<td>206-153</td>
<td>206-153-G</td>
<td>ID 0.50&quot;</td>
<td>17 L / min</td>
<td>60 psi **</td>
</tr>
<tr>
<td>3/4&quot; Tri-Clamp (TC)</td>
<td>206-154</td>
<td>206-154-G</td>
<td>tubing with 3/8&quot; TC</td>
<td>31 L / min</td>
<td>60 psi</td>
</tr>
<tr>
<td>1&quot; Tri-Clamp 'Ladish'</td>
<td>206-155</td>
<td>206-155-G</td>
<td>tubing with 1&quot; TC Ladish</td>
<td>60 L / min</td>
<td>60 psi</td>
</tr>
</tbody>
</table>

*Maximum flow rate @ 1 psi **Ensure connector supports max PSI

Monitor Specifications

Sensitivity Range
- 1 µS/cm to 200 mS/cm
- 0.1 µS/cm resolution
- Temperature = ambient

Operating Mode / Auto Range Display
- Conductivity: 1 µS/cm to 200 mS/cm
- Operating temperature: 0°C to 50°C

Analog Outputs
- 4-20 mA outputs
- 18 bit resolution

Digital Output (For DIN Contact Us)
- RS-232

Benchtop Output
- USB type B connector

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

Power Supply
- 115/230 VAC
- 100 - 240 VAC 50/60 Hz

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Code</th>
<th>Power Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>SciCon II Sensor Monitor</td>
<td>206-100-M</td>
<td>115/230 VAC</td>
</tr>
<tr>
<td>Sensor Cable [Sensor to Monitor] - 6 ft</td>
<td>CBL-007</td>
<td>100 - 240 VAC</td>
</tr>
<tr>
<td>Sensor Cable [Sensor to Monitor] - 12 ft</td>
<td>CBL-008</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>DIN Temp Monitor</td>
<td>206-100-D</td>
<td>115/230 VAC</td>
</tr>
</tbody>
</table>
The only caustic stable, gamma stable and autoclaveable pre-calibrated, single-use pressure sensor with an on board memory device that stores data of all calibration as well as sensor specific information.

The SciPres II offers plug and play single-use pressure sensing that is scaleable from luer devices to 1” tri-clamp laddish fittings.

Each sensor is pre-programmed with a unique ID for easy traceability with automatically read factory calibration data stored on the sensor’s on board chip. This removes the need for individual calibration and, in turn, reduces variation between sensors.

The data can be accessed via the SciDoc software, direct to your PC via the SciPres II monitors or as part of an integrated platform via a DIN card.

Features and Benefits

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

SciPres II Range & Accuracy

- Pressure range: -10 to 60 psi*
- Pressure accuracy
  ±0.3 psi, 0-30 psi
  ±3% of reading, >30-60 psi

*Gamma irradiated version to be used for vacuum applications
Sensor Specifications

Sterilizability
- Can be sanitized: IPA 70%
- Autoclavable: 1x
- Gamma stable: 25-45 kGy*

Material
Fluid contact materials (polysulfone, <0.1% medical grade silicone dialectric gel, medical grade polycarbonate) meet:
- USP class VI
- FDA 21 CFR 177.1520
- All wetted materials are made of animal-free compounds

Sensor Type
- Medical grade
- Resistive
- Sensing element with on-chip temperature compensation

Sensor Microchip
- EPROM
- Stored sensor ID and calibration factor

Sensor Connector and Cables
- Dust and water proof: IP67

Size, Part Codes and Specifications

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Non-Gamma Irradiated Part Code ( Packs of 5)</th>
<th>Gamma - Irradiated Part Code ( Packs of 5)</th>
<th>Compatible Tubing Sizes</th>
<th>Max. Flow Rate**</th>
<th>Max. Operating Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luer</td>
<td>206-251</td>
<td>206-251-G</td>
<td>ID 0.03&quot; to 0.31&quot;</td>
<td>1.0</td>
<td>0.26</td>
</tr>
<tr>
<td>3/8&quot; Barb</td>
<td>206-252</td>
<td>206-252-G</td>
<td>ID 0.31&quot; to 0.38&quot;</td>
<td>8.0</td>
<td>2.11</td>
</tr>
<tr>
<td>1/2&quot; Barb</td>
<td>206-253</td>
<td>206-253-G</td>
<td>ID 0.50&quot;</td>
<td>17.0</td>
<td>4.49</td>
</tr>
<tr>
<td>3/4&quot; Tri-Clamp (TC)</td>
<td>206-254</td>
<td>206-254-G</td>
<td>Tubing with 3/8&quot; TC</td>
<td>31.0</td>
<td>8.19</td>
</tr>
<tr>
<td>1&quot; Tri-Clamp 'Ladish'</td>
<td>206-255</td>
<td>206-255-G</td>
<td>Tubing with 1&quot; TC Ladish</td>
<td>60.0</td>
<td>15.9</td>
</tr>
</tbody>
</table>

* At minimum dose, sensor accuracy is unaffected. At maximum dose accuracy may be reduced ** Maximum flow rate @ 1 psi *** Ensure connector supports max PSI

Monitor Specifications

Sensor Inputs
- Up to three simultaneously

Sensor Readout
- P1, P2 and P3
- Differential pressure (dP)
- Transmembrane pressure (TMP)
- Display of dP and TMP are user-selectable

Analog Outputs
- 4-20 mA outputs for P1, P2, P3 and dP or TMP
- 18 bit resolution

Analog Output (For DIN Contact US)
- DIN-232

Power Supply
- 115/230 VAC
- 100 - 240 VAC 50/60 Hz

<table>
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<tr>
<th>Description</th>
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<tr>
<td>SciPres II Sensor Monitor</td>
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<td>Sensor Cable [Sensor to Monitor] - 6 ft</td>
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</table>

Parker Bioscience Filtration has a continuous policy of product development and although the company reserves the right to change specifications, it attempts to keep customers informed of any alterations. This publication is for general information only and customers are requested to contact their local sales representative for detailed information and advice on a product's suitability for specific applications. All products are sold subject to the company's standard conditions of sale.
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 SciTemp II provides high precision temperature sensing capabilities in a compact disposable package. Each sensor is pre-programmed and barcoded with a unique ID for easy traceability and date documentation when combined with the SciDoc software.

Factory calibration is also stored on each sensor’s chip for out-of-box plug and play use. The data can be accessed via the SciDoc software, direct to your PC via the SciTemp II monitors or as part of an integrated platform via a DIN card.

**Features and Benefits**

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

**SciTemp II Range & Accuracy**

- Temperature range: 4 °C to 70 °C
- Temperature accuracy: ± 0.5°C
**Sensor Specifications**

**Sterilizability**
- Can be sanitized: IPA 70%
- Autoclavable: 1x
- Gamma stable: 25-45 kGy

**Material, Fluid Contact**
Fluid contact materials (polysulfone, <0.1% medical grade silicone) meet:
- USP class VI
- 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

<table>
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<tr>
<td>Luer</td>
<td>206-351</td>
<td>206-351-G</td>
<td>ID 0.03&quot; to 0.31&quot;</td>
<td>1 L / min</td>
<td>60 psi **</td>
</tr>
<tr>
<td>1/4&quot; Barb</td>
<td>206-352</td>
<td>206-352-G</td>
<td>ID 0.31&quot; to 0.38&quot;</td>
<td>8 L / min</td>
<td>60 psi **</td>
</tr>
<tr>
<td>1/2&quot; Barb</td>
<td>206-353</td>
<td>206-353-G</td>
<td>ID 0.50&quot;</td>
<td>17 L / min</td>
<td>60 psi **</td>
</tr>
<tr>
<td>1/4&quot; Tri-Clamp (TC)</td>
<td>206-354</td>
<td>206-354-G</td>
<td>Tubing with 1/4&quot; TC</td>
<td>31 L / min</td>
<td>60 psi</td>
</tr>
<tr>
<td>1&quot; Tri-Clamp 'Ladish'</td>
<td>206-355</td>
<td>206-355-G</td>
<td>Tubing with 1&quot; TC Ladish</td>
<td>60 L / min</td>
<td>60 psi</td>
</tr>
</tbody>
</table>

* Maximum flow rate @ 1 psi ** Ensure connector supports max 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 (For DIN Contact Us)**
- RS-232

**Benchtop Output**
- USB type B connector

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

**Power Supply**
- 115/230 VAC
- 100 - 240 VAC 50/60 Hz

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