**SP200 Pressure Control Unit**

**Precision Pressure Measurements for Basic Science Research**

**Scisense SP200 Specifications**

**GENERAL FEATURES**
Size: 2.9” (7.5 cm) h x 5.9” (15.0 cm) w x 7.9” (20.0 cm) d

**POWER SUPPLY**
Input: 100-250 VAC, 50-60 Hz
Connector: 5 pin Circular DIN

**OPERATIONAL TECHNOLOGY**
Solid-state pressure sensors

**CATHETER COMPATIBILITY**
FTH- and FDH- Series Pressure Catheters

**CATHETER CONNECTOR**
HDMI

**PRESSURE INPUTS**
SP200 accepts two pressure inputs from either two single sensor Catheters or one dual sensor Catheter.

**ANALOG OUTPUT**
Rear panel BNC output:
- Number of outputs: 2
- Voltage range: -5 to + 5 volts
- Pressure Output Range: -100 to +300 mmHg
- Resolution: 22mV/mmHg
- Calibrate using the [0 mmHg] and [100 mmHg] buttons on the front of the meter.

**Balance Controls**
Each pressure sensor can be zeroed individually using the Balance Controls. First use the Coarse then the Fine controls to adjust the pressure signal to zero.
Note: Catheters should be pre-soaked in saline prior to zeroing. For more information see Pressure Sensor Calibration (SP-1-tn).
Pressure Catheters Options & Ordering

CHECKLIST FOR ORDERING
AND CUSTOMIZING CATHETERS

1. Select Catheter size
   • 1.2F & 1.6F Rodent Catheters
   • 3.5F Mid-sized Animal Catheter
   • 5.0F & 7.0F Large Animal Catheters

2. Select number of pressure sensors
   • Single (1 sensor)
   • Dual (2 sensors)

3. Specify Catheter length if not standard
   • 1.2F & 1.6F - 18” standard
   • 3.5F - 24” standard
   • 5.0F & 7.0F - 45” or 48” standard

4. Specify tip type
   • 1.2F, 1.6F & 3.5F - straight tip, closed lumen standard
   • 5.0F - straight or pigtail tip, closed lumen standard
   • 7.0F - straight or pigtail tip with open or closed lumen standard
   • Additional customization options available including curved or angled tips

5. Specify spacing between pressure sensors (dual only)
   • 3.5F - 3 or 4 cm standard
   • 5.0F & 7.0F - 5 cm standard
   • Specify custom spacing in 1 cm increments

*Customization is subject to limitations, please contact your local sale representative or Transonic customer service for more information

**45” length standard for FDH-series and 48” length standard for FTH-series

PRESSURE CATHETER SPECIFICATIONS

<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>Silicon Diffused Semiconductor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excitation</td>
<td>Constant Current</td>
</tr>
<tr>
<td>Reference Pressure</td>
<td>Atmosphere</td>
</tr>
<tr>
<td>Bridge Type</td>
<td>Half Bridge</td>
</tr>
<tr>
<td>Bridge Resistance</td>
<td>900 Ohms nominal</td>
</tr>
<tr>
<td>Pressure Range</td>
<td>-50 to 300 mmHg</td>
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<tr>
<td>Frequency Response</td>
<td>&gt; 10 KHz</td>
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<tr>
<td>Sensitivity</td>
<td>10.93 μV/V/mmHg</td>
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<tr>
<td>Hysteresis/ Non Linearity</td>
<td>± 1% FS @ 38º</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>32º to 42º C</td>
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</tbody>
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Frequency response beyond 600 BPM, 10Hz