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

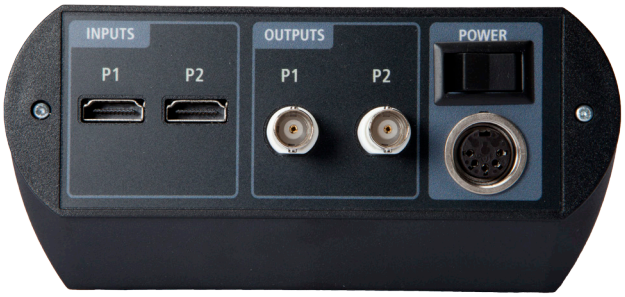
PRESSURE INPUTS

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).

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Pressure Catheters Options & Ordering

CHECKLIST FOR ORDERING AND CUSTOMIZING CATHETERS

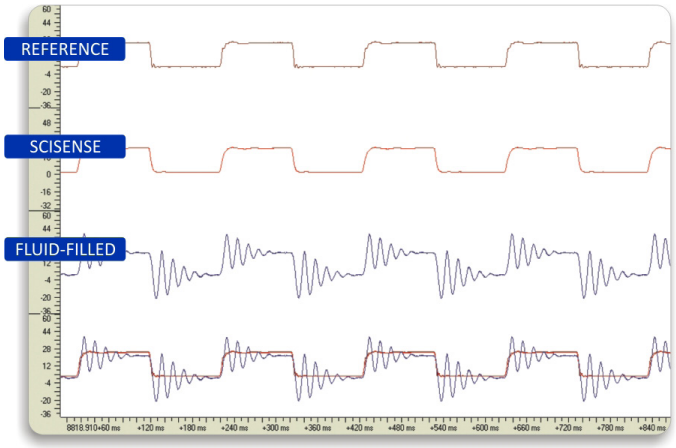
1. Select Catheter size
   - 1.2F & 1.6F Rodent Catheters
   - 3.5F Mid-sized Animal Catheter
   - 5.0F & 7.0F Large Animal Catheters
2. Select number of pressure sensors
   - Single (1 sensor)
   - Dual (2 sensors)
3. Specify Catheter length if not standard
   - 1.2F & 1.6F - 18" standard
   - 3.5F - 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

Sensor Type	Silicon Diffused Semiconductor
Excitation	Constant Current
Reference Pressure	Atmosphere
Bridge Type	Half Bridge
Bridge Resistance	900 Ohms nominal
Pressure Range	-50 to 300 mmHg
Frequency Response	> 10 KHz
Sensitivity	10.93 µV/V/mmHg
Hysteresis/ Non Linearity	± 1% FS @ 38°
Temperature Range	32° to 42° C



Frequency response beyond 600 BPM, 10Hz

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