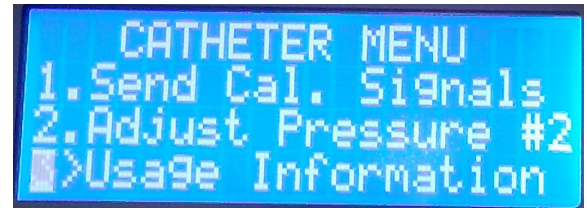


Scisense Pressure Technical Note

Using a Pressure/Dual Pressure Only Catheter with the ADV500 PV Control Unit

The ADV500 PV System is compatible with Transonic Scisense Pressure Catheters. The Pressure Catheter must be connected to the "Catheter" Port on the rear of the ADV500. A second Pressure Catheter can be connected to the Pressure #2 port. See table for details.



ADV500 Catheter menu for Pressure only Catheter

The Catheter Menu options for the ADV500 are different when a Pressure Catheter is connected as opposed to a PV Catheter. It is important to note that the "Acquire Data" option seen with the PV Catheter is no longer available because the Pressure Catheter automatically outputs the pressure signal.

CATHETER(S)	CONNECTED TO CATHETER PORT	CONNECTED TO PRESSURE #2 PORT	ADV500 MENU	COMMENTS
Single Pressure (SP) only	SP	x	Catheter menu	One pressure signal
Single Pressure (SP) only	x	SP	No Catheter menu*	No pressure data
Dual Pressure (DP) only	DP	x	Catheter menu	Two pressure signals
Dual Pressure (DP) only	x	DP	No Catheter menu*	No pressure data
DP + SP	DP	SP	Catheter menu	SP in port #2 disables proximal Pressure sensor from DP catheter (total of 2 pressure signals only)
SP + DP	SP	DP	Catheter menu	SP pressure and only one pressure signal from DP (distal sensor)
SP + SP	SP	SP	Catheter menu	Two pressure signals
DP + DP	DP	DP	Catheter menu	Only one pressure signal from each DP (distal sensors)

*No Catheter Menu:
1. License Features
2. System Information



ADV500 System can connect one Pressure Catheter in the Catheter Port plus a second Pressure Catheter in the Pressure #2 port

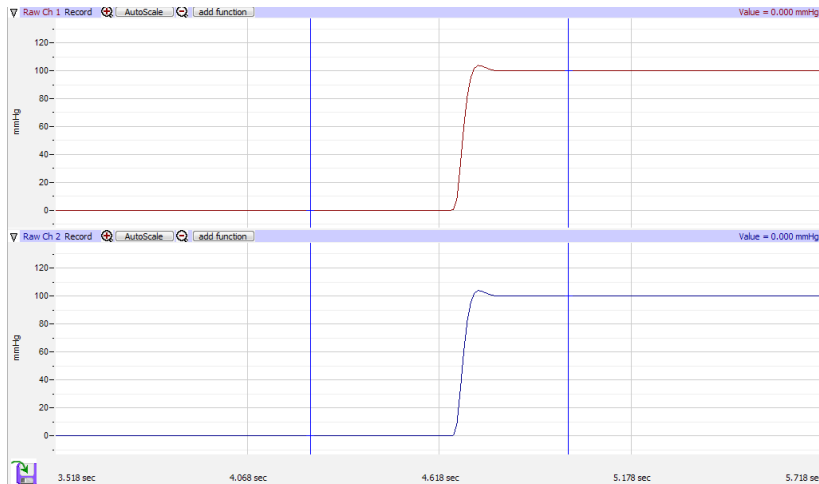


Using a Pressure Catheter with the ADV500 Cont.

- 1. Send Cal. Signals:** Upon selection the ADV500 will output the Low Signal for all channels (both pressure channels = 0 mmHg). Note: The ADV500 will still provide the calibration signals for the PV channels. Once Low Signals have been recorded on the DAQ software, hit ENTER on the ADV500 to send High Signal (pressure = 100 mmHg). See "How to Create Pressure Configuration File in LabScribe2" for more details.



The red BNC output is for pressure sensor 1 and the black is for pressure sensor 2. All other outputs should not be connected.



Low and High pressure calibration signals for a dual pressure sensor Catheter



Low Calibration Signals



High Calibration Signals

- 2. Adjust Pressure #2:** This will allow you to use the Course and Fine Pressure Balance Controls to adjust either the only pressure sensor, the second pressure sensor in a dual Pressure Catheter or the pressure sensor of the second Catheter. The first pressure sensor is adjusted directly from the Catheter Menu and the pressure value during balancing must be viewed on the DAQ screen. See "Pressure Catheter Pressure Sensor Calibration" for more information.

- 3. Usage Information:** Displays the number of uses and total time used.



Usage Information menu



Adjust Pressure #2 menu. Use the buttons below the screen to adjust the zero offset



Transonic Systems Inc. is a global manufacturer of innovative biomedical measurement equipment. Founded in 1983, Transonic sells "gold standard" transit-time ultrasound flowmeters and monitors for surgical, hemodialysis, pediatric critical care, perfusion, interventional radiology and research applications. In addition, Transonic provides pressure and pressure volume systems, laser Doppler flowmeters and telemetry systems.

AMERICAS
 Transonic Systems Inc.
 34 Dutch Mill Rd
 Ithaca, NY 14850
 U.S.A.
 Tel: +1 607-257-5300
 Fax: +1 607-257-7256
 support@transonic.com

EUROPE
 Transonic Europe B.V.
 Business Park Stein 205
 6181 MB Elsloo
 The Netherlands
 Tel: +31 43-407-7200
 Fax: +31 43-407-7201
 europe@transonic.com

ASIA/PACIFIC
 Transonic Asia Inc.
 6F-3 No 5 Hangsiang Rd
 Dayuan, Taoyuan County
 33747 Taiwan, R.O.C.
 Tel: +886 3399-5806
 Fax: +886 3399-5805
 support@transonicasia.com

JAPAN
 Transonic Japan Inc.
 KS Bldg 201, 735-4 Kita-Akitsu
 Tokorozawa Saitama
 359-0038 Japan
 Tel: +81 4-2946-8541
 Fax: +81 4-2946-8542
 japan@transonic.com