



# CATAMOUNT

RESEARCH AND DEVELOPMENT INC.

## **4 CHANNEL DIRECT INPUT/OUTPUT MODULE**

IO-200-4

PRODUCT MANUAL

**DOC-279**

**Rev. 1.0**

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notes

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## CHAPTER 1 | INTRODUCTION

Catamount Research and Development’s Cystometry station is designed for performing in vivo measurements of bladder function in small animals.

The optional IO-200-4 Module allows for the bladder pressure or event mark data from the cystometry system to be transferred to a separate recording computer or device.

The IO-200-4 module has four Input/Output connectors on the face panel that can be configured to monitor any of the analog signals produced in a Cystometry System. The Input/Output signals are available on the IO-200-4 module as a BNC connector. Each BNC connector on the IO-200-4 must be addressed to monitor the desired analog channel in your Cystometry System. The analog address setting for each BNC connector is set using a series of jumper blocks located on the IO-200-4 circuit board.

Figure 1.1 – IO-200-4 Module

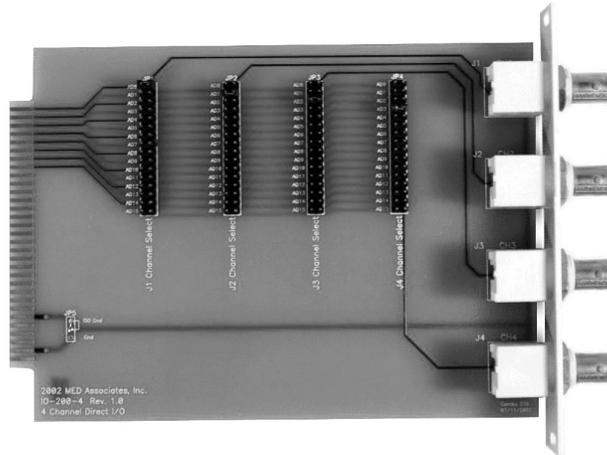


Figure 1.2 – IO-200-4 Module Installed In Cabinet



## CHAPTER 2 | MODULE SET-UP

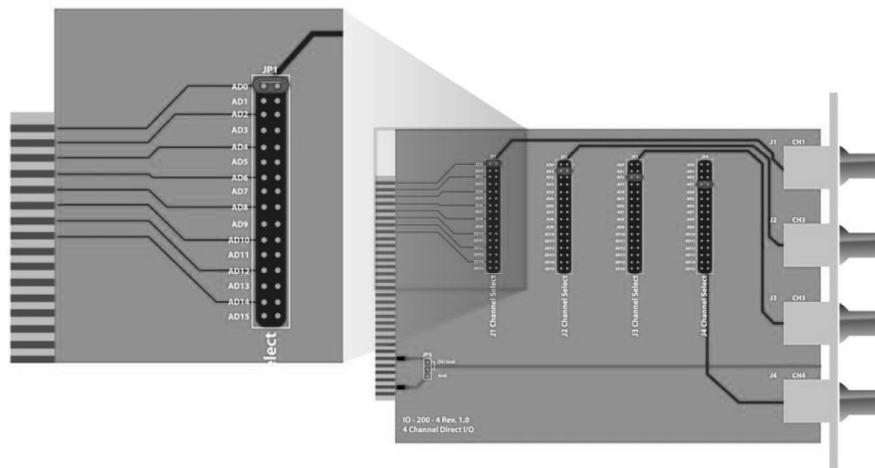
Table 2.1 shows the analog address settings in the four Stations of a typical Small Animal Cystometry Lab System.

*Table 2.1 – Analog Address Settings For IO-200-4*

Monitored Signal	Station 1 (JP1)	Station 2 (JP2)	Station 3 (JP3)	Station 4 (JP4)
Bladder Pressure Transducer (CANL-430A)	AD0	AD2	AD6	AD8
External switches (IO-206)	AD1	AD3	AD7	AD9
Blood pressure (optional: CANL-430A)	AD4	AD5	AD10	AD11

Set the jumper of each BNC connector on the IO-200-4 module to match the corresponding channel you wish to monitor. For example, to monitor bladder pressure in each of the four stations in a four station Cystometry System, set the jumper for Station 1 (JP1) to AD0, the jumper for Station 2 (JP2) to AD2, the jumper for Station 3 (JP3) to AD6, and the jumper for Station 4 (JP4) to AD8.

*Figure 2.1 – Jumper Setting Shown With JP1 Set To Monitor Bladder Pressure Or Station 1 (AD0).*



## **Appendix A | CONTACT INFORMATION**

Please contact Catamount Research and Development, Inc. for information regarding any of our products.

Visit our website at [www.catamountresearch.com](http://www.catamountresearch.com) for contact information.

For technical questions, email [preclinical@catamountresearch.com](mailto:preclinical@catamountresearch.com).