

CANL-431 BLADDER PRESSURE MONITOR

TECHNICAL DOCUMENTATION

Overview

The CANL-431 **Bladder Pressure Monitor** is a dual channel audio pressure monitor designed to monitor two pressure transducer sources, such as those used in the MED Associates Cystometry systems, and output an audible tone into a set of stereo headphones (one channel into the left earpiece, the other channel into the right earpiece). As the transducer pressure rises, so will the tone's frequency. The CANL-431 pressure monitor has been factory calibrated to produce a 250 Hz tone indicating zero mmHg and a 2500 Hz tone indicating a full-scale pressure of 300 mmHg. The CANL-431 uses an ordinary pair of stereo headphones with an impedance of at least 16 Ohms. Each channel's audio level can be adjusted via a volume control located on the front panel.

On-board jumpers allow the user to select which of 16 A/D channels to monitor. If the CANL-431 was purchased as part of a cystometry system from MED Associates, the jumpers have been factory preset to monitor the correct A/D channels. If a CANL-431 is being added to an existing cystometry system, contact Med Associates for details on how to determine what A/D channels the pressure transducers are configured for.

Connections/Controls

Headphone Out: Connect a pair of stereo headphones with a 3.5 mm plug to this connector.

Volume 1/Volume 2: The volume controls allow adjustment of the sound level to each headphone ear cup.

Channel 1/Channel 2 Selection Jumpers (on-board): The 'Channel 1' and 'Channel 2' jumpers allow the user to select which of the 16 A/D channels to monitor. To select a channel, remove the plastic jumper shunt from one set of pins and place on another set.

For example, to monitor AD CH 0 and AD CH3, place the jumper shunts on the pins corresponding to AD Ch0 and AD CH3.

Operation

Operation of the Bladder Pressure Monitor is fairly straightforward. With power off to the interface cabinet, insert the CANL-431 firmly into any available slot in the interface cabinet. Connect a pair of stereo headphones and adjust the volume accordingly.

If only one channel of the pressure Monitor is to be used, turn the volume control for the unused channel completely off (CCW).

DOC-080
Rev. 1.1

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