

# IA-400D Bridge Amplifier and Signal Conditioner

Four channels of excitation power, gain, and noise filtration

This dedicated bridge amplifier for iWorx transducers provides four channels of excitation power, gain, and noise filtration. It exhibits low system noise and offset, making it suitable for use with high resolution data acquisition systems. Each channel of the IA-400D has a switch to allow selection of either a 40 Hz or 10 kHz low-pass filter. This makes the IA-400D an ideal solution for conditioning signals from low bandwidth transducers, such as those used to measure blood pressure and force as well as those applications requiring wider bandwidth.



## IA-400D Specifications

- Number of channels Four (DIN8 connectors)
- Operational Modes Bridge
- Low-pass Filter Switchable 40 Hz and 10K Hz ( $\pm 10\%$ ) 8 pole Bessel filter
- Input Impedance 10 gigOhm
- Input Range  $\pm 10$  VDC
- Excitation Voltage  $\pm 5$  VDC
- Gain 1–10K (set by transducer)
- System Noise  $< 10 \mu\text{V}$  (RTI) /  $< 2 \mu\text{V}$  (RTO)
- Number of Outputs 4 single-ended BNC connectors
- Output Impedance (Maximum)  $< 10$  Ohm (Maximum) /  $< 1$  Ohm (Typical)
- Current 100mA / channel
- Power 12 VDC, 1.5 A

