

IA-400D Bridge Amplifier 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:

- Four (DIN8 connectors)
- Bridge Operational Modes
- Switchable 40 Hz and 10K Hz ($\pm 10\%$) 8 pole Bessel filter
- 10 gigOhm Input Impedance
- ± 10 VDC Input Range
- ± 5 VDC Excitation Voltage
- 1–10K (set by transducer)
- $< 10 \mu\text{V}$ (RTI) / $< 2 \mu\text{V}$ (RTO)
- 4 single-ended BNC connectors
- Action Potentials
- (Maximum) < 10 Ohm (Maximum) / < 1 Ohm (Typical)
- 100mA / channel
- 12 VDC, 1.5 A