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Find the *WPI Bridge-8* at our website: *Click HERE*

ISDB System lets you combine



Iso-DAM8A Modules Isolated Low Noise Bio-Amplifier

CE

The ISO-DAM8A is a compact modular standard rack-mountable DC amplifier system. Each channel is electrically isolated from the others and from ground. No current can flow from the input terminals and electrodes, thus, the instrument is intrinsically safe and cannot cause any electrical stimulus or shock to the preparation, in addition ground loop noise is minimized. Systems can be purchased with one, two, three or up to eight preamplifier modules or mixed with Bridge8 transducer amplifier modules (see next page). The user can then select an appropriate low pass filter setting, gain and offset on the channel amplifier panel. A notch filter has been added to reduce line frequency interference. An optional headstage preamplifier (10x gain) allows low noise extracellular (DC) recording with Iso-DAM8A and adds greater signal bandwidth than a shielded cable of the same length. The Iso-DAM8A amplifier and headstage configuration is optimally suited for use with our metal microelectrodes and can be easily configured for many applications. Each amplifier channel has a coaxial (BNC) connector located on the rear panel.



Optional Recording probe
#74040 plugs into the Iso-DAM8A input jacks.

ISO-DAM8A SPECIFICATIONS

EACH CHANNEL	
INPUT IMPEDANCE	> 10^{12} Ohms
INPUT LEAKAGE CURRENT	10 pA (typical)
INPUT DC OFFSET	± 100 mV
GAIN	×10, ×100, ×1000, ×10,000
COMMON MODE REJECTION	> 100 dB @ 50/60 Hz
EQUIVALENT NOISE SIGNAL INPUT	< 0.36 µV rms (1.8 µV p-p) 0.1-10 Hz, Gain>10 < 1 µV rms (5 µV P-P) 0.1-10 kHz
BANDWIDTH FILTER SETTINGS	
High Filter (Low Pass) (kHz)	0.1, 0.5, 1, 3, 10
Low Filter (High Pass) (Hz)	0.1, 1, 10, 300
Notch Filter (Hz)	50, 60
OUTPUT VOLTAGE SWING	± 7.5 Volts
OUTPUT RESISTANCE	220 Ohms
SYSTEM	
ENCLOSURE DIMENSIONS	7 × 17 × 9.2 in. (18 × 43 × 23 cm)
SHIPPING WEIGHT	10 to 21 lb (4.5 to 9.5 kg)

SYSTEMS	Specify any combination of ISO-DAM8A or BRIDGE8 module (s)	
ISDB-1	Bio-amplifier System (1 channel)	Specify ISO-DAM8A or BRIDGE8 module
ISDB-2	Bio-amplifier System (2 channels)	Specify ISO-DAM8A or BRIDGE8 modules
ISDB-3	Bio-amplifier System (3 channels)	Specify ISO-DAM8A or BRIDGE8 modules
ISDB-4	Bio-amplifier System (4 channels)	Specify ISO-DAM8A or BRIDGE8 modules
ISDB-5	Bio-amplifier System (5 channels)	Specify ISO-DAM8A or BRIDGE8 modules
ISDB-6	Bio-amplifier System (6 channels)	Specify ISO-DAM8A or BRIDGE8 modules
ISDB-7	Bio-amplifier System (7 channels)	Specify ISO-DAM8A or BRIDGE8 modules
ISDB-8	Bio-amplifier System (8 channels)	Specify ISO-DAM8A or BRIDGE8 modules

Each configuration above includes enclosure, power supply, and blank panels for empty slots.

Included with each ISO-DAM8A bioamplifier:
8-pin DIN connector with shielded, unterminated 5-ft cable.

Specify line voltage

Prices shown are in U.S. dollars. Actual charges will vary because of import duty, freight, and currency fluctuations. To obtain an exact quotation, contact your WPI office.

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CE

Bridge8 Modules
Low Noise Transducer Amplifier

Bridge8 is a modular, rack-mountable amplifier system based on a similar architecture to the popular ISO-DAM8A amplifier system. Bridge8 is specifically designed to be used as a signal conditioning amplifier with strain gauges and other powered transducers. Bridge8 includes differential amplifiers featuring high input impedance, high common mode rejection and low current leakage input terminals for low noise operation. The Bridge8 also features a half bridge switch and channel offset A wide variety of WPI transducers are available for force, temperature, pressure and light measurements. The Bridge8 amplifier is a clear choice where convenience and quality are required. Any combination of ISO-DAM8 or Bridge8 modules may be combined in the same enclosure. The ISO-DAM8A module is also available in this rack configuration.

Yes, Bridge8 and Iso-DAM8A modules can be mixed in the same chassis!

BRIDGE8 SPECIFICATIONS

INPUT IMPEDANCE	> 10^{12} Ohms
AMPLIFICATION	1, 10, 50, 100, 500, 1000 & Adjustable
INPUT LEAKAGE CURRENT	0.1 pA at 25 °C
VOLTAGE OFFSET ADJUSTMENT	±50 mV (low); ±100 mV (high)
AMPLIFIER OUTPUT VOLTAGE	±4.4 volts (10 mA, max.)
EXCITATION VOLTAGE	10 volts (±5.0 V) 100 mA, max.
EQUIVALENT NOISE SIGNAL INPUT	< 0.4 µV RMS (2 µV p-p) 0.1-10 Hz Gain >10 < 3 µV RMS (15 µV p-p) 0.1-100 Hz Gain >10
LOW PASS FILTER BAND (KHz)	0.03, 0.1, 0.3, 1, 5, 10, "Wide Band" R-C Butterworth 6 dB /octave
SYSTEM ENCLOSURE DIMENSIONS	7 x 17 x 9.2 in.
SHIPPING WEIGHT	10 to 21 lb (4.5 to 9.5 kg)

OPTIONAL ACCESSORIES

74020	Iso-DAM8A Single Channel Module
74030	ISDB chassis and power supply
74040	Iso-DAM8A Active Headstage (separate)
74050	ISDB Blank panels
BRIDGE8	Bridge8 Transducer Amplifier Module
2933	ISDB Rack Mount Kit, 5¼-in. High
FORT10g	Force Transducer 10 g
FORT10-100	Force Transducer, Dual Range (10 & 100 g)
FORT25	Force Transducer 25 g
FORT100	Force Transducer 100 g
FORT250	Force Transducer 250 g
FORT1000	Force Transducer 1000 g
47610	Force Transducer 100 g Myobath only
PNEU01	Pressure Sensor, 1 PSIG (6.8 Kpa)
PNEU05	Pressure Sensor, 5 PSIG (34.4 Kpa)
PNEU15	Pressure Sensor, 15 PSIG (103.4 Kpa)
DSPL	Displacement Transducer (± 12mm)
LUME	Photocell (50mV / 5mW/cm2)
500184	BNC to BNC 10 foot cable
3161	8-pin DIN plug
3718	Package of 4, 8-pin DIN (startup kit)
3491	Extension Cable (DIN male, DIN female), 5 ft (1.5m)

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