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# MAX II Modules and Descriptions

The following modules fit into either size of the MAXII. These modules provide a convenient interface between system hardware and the BioSystem XA for Windows software.

## Strain Gauge Preamp MAX2270

The Strain Gauge preamplifier module is designed to power a bridge transducer and to amplify its output to the +/-5 volt range.

Front panel controls include a lockable counting dial Gain knob, a zero adjust and a balance screw. Also included is an AC/DC/Off toggle switch, which lets you switch the transducers off or on in normal (DC) mode, or apply a very low frequency high pass filter (AC mode). An OUT jack, also on the front panel, lets you run the preamplified signal back out to a device other than the software. This feature is useful for connecting to a chartwriter.

The Strain Gauge Preamplifier is available in stand-alone or modular form. It is used in cardiovascular, pulmonary, and tissue tension applications.

## Carrier Modulator Preamp MAX2215

The Carrier Modulator Preamplifier modules are signal conditioners for variable reluctance pressure transducers. Typically, they are used with the ValidyneTM DP45 series transducers.

## ECG Preamp MAX2240

The ECG preamp module accepts inputs from electrodes monitoring electro-cardiographic activity in animals. One singular input on the front panel accepts a specially designed cable that has inputs for different types of ECG electrodes, such as pin jacks, needles, or alligator clips. This cable can accept up to 4 electrode inputs, which is suitable for most ECG lead configurations. For calibration purposes, a button labeled "CAL" applies a regulated signal when pushed. Gain can be adjusted by turning the 3-position knob. This preamp module is suitable for dog, rat, and mouse.

## Signal Generator MAX2230/2231

The Signal Generator module is a useful addition to the MAX II unit. It generates steady waveforms which do not vary. This module is useful not only to validate the software, but also to train operators without having to use an animal. On the front panel, one indicator knob allows you to easily switch between simulated signals. The MAX2231 is included as part of the BioSystem for Maneuvers to simulate the breathing patterns of an animal. The more general MAX2230 may be used with the BioSystem XA for Windows software as a training tool for any pulmonary or cardiovascular application.

## Digital Output Driver MAX4360/4371

The Digital Output module provides 4 channels of opto-isolated digital output drivers which can help automate some of your laboratory procedures. It can be used for activating external devices, for example, to turn a nebulizer on and off. It can also be used to activate valves, or trigger other hardware devices. The integrated circuit design achieves both greater reliability and much faster on/off time than possible with electromechanical relays. Both the single and the double width modules have 4 input jacks and corresponding On/Off indicator lights.

Use the single width module (MAX4360) to control items that require current at or below 100mA per channel. The internal power supply can support +5 or +12 volts.

Use the double width module (MAX4371) to control valves, solenoids, or other items that have high current up to 1.5 amps. Unlike the single width module, this module features override switches for each of the 4 channels, which facilitate manual in addition to computer control. To support 1.5 amps per channel, an external power supply is necessary, and an input jack for this power supply is provided on the front panel. It can control voltage from 5 to 50 volts DC from external power sources.


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analyzer, which also derives Specific Airway Resistance. This module can accurately time zero crossings to 16 microseconds, and accept leads from 2 animals - one thoracic and one nasal lead each.

## Output Monitor Module MAX2235

The Output Monitor module allows you to monitor any signal coming into the MAXII unit for purposes such as validation. The front panel has a set of 8 output jacks. Each one of these jacks can be configured to output any of the 32 signals coming into the backplane. Easily jumper configurable, this module is useful for monitoring differentiated outputs of transducers, or validating signals by running them simultaneously through the software and through a chartwriter.

## Signal Conditioner Module MAX2290

The Signal Conditioner module accepts and conditions high level signals. The gain is dip switch selectable, offering amplifications of 1, 2, 5, 10 and 20. The front panel controls include four 1/8" input jacks with corresponding AC/DC/Off switches and fine zero screws to adjust the offset of the signal.




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