Preamps and Other Modules

MAX1320 MAX1420

ECG Preamp MAX2240, Single Width

The ECG preamp module accepts inputs from electrodes monitoring electrocardiographic 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, Single Width

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 MAX 4360/4371, Single or Double Width

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.

Ramp Module MAX2260, Single Width

The Ramp module is used in non-invasive airway mechanics applications to find the delta time between the nasal and thoracic flows. This hardware module supports the original method of deriving Specific Airway Resistance. It's an option to the software Ramp 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, Single Width

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, Single Width

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 .125 in input jacks with corresponding AC/DC/Off switches and fine zero screws to adjust the offset of the signal.

Catalog No.	Product
CGS 8202.69	Strain Gauge Preamp MAX2270, Single Width
CGS 8203.69	Carrier Modulator Preamp MAX2215, Single Width
CGS 8204.69	ECG Preamp MAX2240, Single Width
CGS 8205.69	Signal Generator MAX2230/2231, Single Width
CGS 8206.69	Digital Output Driver MAX 4360/4371, Single or Double Width
CGS 8207.69	Rmp Module MAX2260, Single Width
CGS 8208.69	Output Monitor Module MAX2235, Single Width
CGS 8209.69	Signal Conditioner Module MAX2290, Single Width