

Brownlee Precision Model 410

The Model 440 adds controls for a highpass filter, notch filter, digital volt meter, auto zero, and input impedance on each channel.

Gain, Lowpass Filter, and Highpass Filter generally step through the following values

1.0, 1.1, 1.2, 1.3, ... 1.9,
2.0, 2.2, 2.4, 2.6, ... 4.8,
5.0, 5.5, 6.0, 6.5, ... 9.5,
and multiples of 10 thereof.

Gain

Range: 0.1 to 10,000

Steps: 0.1, 0.15, 0.2, 0.25, 0.3,
0.4, 0.5, 0.6, 0.7, 0.8, 0.9, then as
above for gains 1.0 to 10,000

Gain Accuracy: < 2% error.

Lowpass Filter

Range: 20 Hz to 50 kHz (8 pole),
plus 80 kHz (2 pole) and wideband.

Steps: as above for frequencies
20 Hz to 15 kHz, then 18,
20, 22, 25, 33, 40, 50, 80
(all kHz), and wideband.

Characteristic: 8 pole Bessel
(8 pole Butterworth may be
substituted on any or all channels;
contact AutoMate Scientific).

Wideband Frequency Response:
500 kHz min. all gains.

High performance four-channel amplifier and signal conditioner in one quiet package.

**Brownlee Precision Model 440 Amplifier**

The Brownlee Precision Model 440 incorporates four channels of sophisticated amplifier and filter circuitry in a friendly, easy to use instrument. Each channel consists of a high gain/low noise amplifier, an 8-pole Bessel lowpass filter, a highpass filter, a line notch filter, and output offset controls. A control knob sets the amplifier parameters, and the values are displayed on a bright LED alphanumeric readout.

- **Key Features**

- Clear front panel controls for all settings
- Gains from 0.1 to 10,000 in fine, calibrated steps
- Single-ended or differential inputs
- 8 pole Bessel lowpass filter with range 20 Hz to 50 kHz
- Highpass filter with frequency range .01 Hz to 100 Hz
- Output offset control to shift output up to ± 10 Volts
- Auto-Zero feature to reset the output to the baseline level
- Notch filter to suppress line noise
- Digital Voltmeter on channels 1 and 2
- Powerful output which can directly drive transducers
- Wide bandwidth: greater than 500 kHz on all gains

