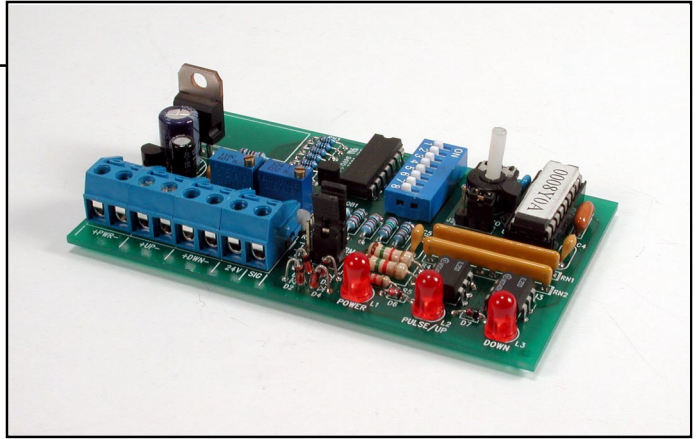




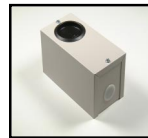
### FEATURES

- Field Selectable Rate of Change (Four Combinations of ranges available)
- Field Adjustable Output with Manual Override Potentiometer
- 255 Step Resolution
- Current or Voltage Output
- LED Status Indicators
- No Wrap Around
- Relay, Transistor, or Triac Input (operates on 50 or 60 Hz-see below)



### APPLICATIONS

- Floating Point to Analog Conversion
- Motor Speed Control
- Positioner and Actuator Control
- Variable Speed Drives
- Contact Integration



Optional  
ENC1  
Enclosure



Optional  
DRC  
DIN Rail  
Adapter

### PRODUCT DESCRIPTION

The AUD converts a floating point signal into a linear analog output. There are two inputs on the AUD, one to increase the analog output and one to decrease the analog output.

The output of the AUD is stable when the inputs are both off. A contact closure or voltage signal to either input will cause the output of the AUD to begin to ramp either up or down depending on which input was activated. The output stops ramping once the up or down input is deactivated, and will remain at that value until another up or down signal is received. If both inputs are "ON" the output will reset to the lowest value of

the selected range.

The output of the AUD is in the form of an analog, steady state voltage or current. This signal can be scaled to fit the needs of the application by selecting 1 of several preset ranges by dip switch or by adjusting the offset and the gain of the output with two potentiometers. The output of the AUD is also protected against wraparound. In the event the output reaches either its maximum or minimum level, the ramping will stop and the output will be held at that value. The output signal rate of change is field selectable by dip switch. Custom variations are available for rate of change, reset, input and output configurations.

### ORDERING INFORMATION

Specify: **AUD** Version \_\_\_\_\_ with \_\_\_\_\_ ENC1 Enclosure?

1, 2, 3 or 4 (see chart on reverse)

### SPECIFICATIONS

#### Electrical Requirements

##### Power Supply

Supply Voltage

Regulated 24 VDC (24 VDC to 35 VDC) or 24 VAC (21.6 VAC to 28 VAC). 50/60 Hz.

Supply Current

208 mA max

### Input (Digital)

Signal Source:

Relay contact closure, transistor, or triac (24 VAC, 50/60 Hz),

Signal Trigger Level:

Normal Mode: 5 to 26.4 VDC  
24 to 26.4 VAC

Triac Mode: 24 to 26.4 VAC

Full Range Rates of Change:

Version # 1	Version # 2	Version # 3	Version # 4
0008Y0A.HEX	0244Y0A.HEX	0256Y0A.HEX	0537Y0A.HEX
5 sec	45 sec	45 sec	5 sec
15 sec	60 sec	60 sec	No Operation
30 sec	120 sec	120 sec	No Operation
90 sec	240 sec	240 sec	360 sec
Version # 3: Resets to maximum signal output on start-up or if both inputs (up/down) pulse 3.5 sec.			

Custom rates of change available.

Contact Customer Service

### Output

Voltage Preset Ranges:

Dip Switch Selectable:

0 to 1 VDC	1 to 2 VDC
0 to 4 VDC	1 to 5 VDC
0 to 10 VDC	1 to 11 VDC
0 to 13 VDC	1 to 14 VDC

Voltage Ranges (Adjustable):

Adjustable Range: 0 to 20 VDC (with adjustable offset and span)

Voltage Output Load:

3300 ohms minimum at 20 Volts  $\pm$  10%

400 ohms minimum at 10 Volts  $\pm$  10%

*Note:* If the voltage output is limited to 18 Volts on the high end of the output span, the DC supply limit can be 24 VDC  $-10\%$  and maintain stated accuracy.

Current Ranges (Fixed):

Preset Ranges; Dip Switch Selectable.

0 to 16 mA	4 to 20 mA
------------	------------

Current Ranges (Adjustable):

0 to 20 mA (with adjustable offset and span).

Current Output Load:

0 to 750 ohms maximum. *Note:* If the load is lowered to 700 ohms, the DC supply can be 24 VDC  $-10\%$  and maintain stated accuracy.

Accuracy - 60 Hz :

Absolute  $\pm 2\%$  of span for adjustable ranges, 5% for preset.

Accuracy - 50 Hz :

Absolute  $\pm 3\%$  of span for adjustable ranges, 5% for preset.

Resolution:

256 steps (all ranges)

Regulated Power Output (for user):

24 VDC ( $\pm 10\%$ ), 48mA maximum

### Mechanical Requirements

Terminal Type

90° plug-in terminal blocks with 5mm pin spacing

Dimensions

3.75" L x 2.25" W x 1.15" H

Weight

1.5 oz.

Mounting

Furnished with 3.75" length of 2.25" wide snap track (ENC1 Optional)

### ENVIRONMENTAL REQUIREMENTS

Operating Temperature

32 to 120 deg F

Storage Temperature

-20 to 150 deg F

Operating Humidity

10% to 95% non-condensing

**Specifications may change without notice to improve product performance.**

**Call For Other Calibration Ranges and Versions.**

*If you have a different application or need, please call 1-800-886-2281 and discuss your needs with our Sales Engineers.*