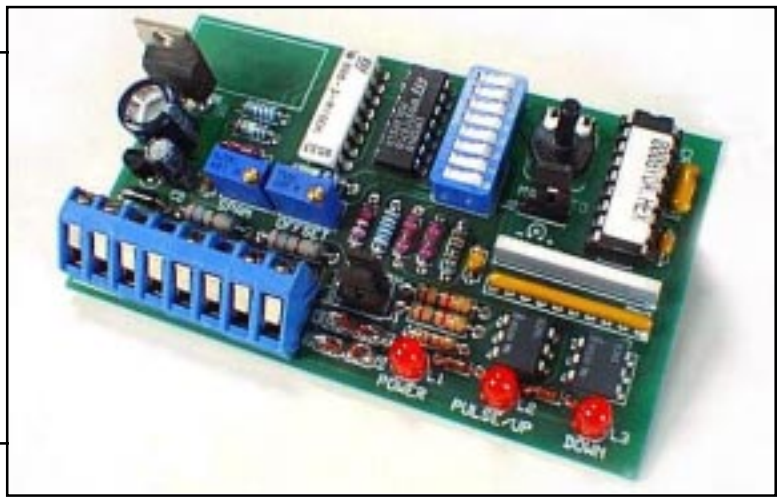
AUD

Floating Point or Tri-State Input to Analog Current or Voltage Output

FEATURES

- Field Adjustable Output with Manual Override Potentiometer
- Field Selectable Rate of Change
- 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

- Tri-State to Analog Conversion
- Motor Speed Control
- Positioner and Actuator Control
- Variable Speed Drives
- Contact Integration

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.

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 wrap-around. 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** or **AUD Model # 0396-01 (50 Hz)**, Version _____ with _____ ENC1 Enclosure?

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

SPECIFICATIONS

Electrical Requirements

Power Supply

Supply Voltage	Regulated 24 VDC (24 VDC to 35 VDC) or 24 VAC (22 VAC to 28 VAC). 50 Hz Model available - see ORDERING INFORMATION above.
Supply Current	50 mA max

GREYSTONE ACCURACY BY DESIGN
150 English Drive, Moncton, NB, E1E 4G7 CANADA tel: 506-853-3057 fax: 506-853-6014
e-mail: greystone@nbnet.nb.ca website: www.greystoneenergy.com

Input (Digital)

Signal Source	Relay contact closure, transistor, or triac (24 VAC),
Signal Trigger Level	5 to 24 VDC (positive polarity) or dry contact (negative polarity)

Full Span Rates of Change

Version # 1	Version # 2	Version # 3
5 sec	45 sec	45 sec
15 sec	60 sec	60 sec
30 sec	120 sec	120 sec
90 sec	240 sec	240 sec

Version # 3
Resets to maximum signal output on startup or if both inputs (up/dn) pulse 3.5 sec.

Custom rates of change available. Contact Customer Service

Output

Voltage Range	Preset Spans; 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 14 VDC 1 to 15 VDC
	Adjustable Range: 0 to 20 VDC (with adjustable offset)
Current Range	Pre-set spans; Dip switch selectable
	0 to 18 mA 4 to 20 mA
	Adjustable Range: 0 to 20 mA (with adjustable offset)
Accuracy - 60 Hz model:	Absolute +/- 2% of span for all ranges, fixed or adjustable
50 Hz model:	Absolute +/- 3% of span for all ranges, fixed or adjustable
Resolution	255 steps
Load Impedance	Current - 0 to 750 ohms maximum
	Voltage - 1000 ohms to infinity minimum

Mechanical Requirements

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

AUD Specifications may change without notice to improve product performance.

Call For Other Calibration Ranges and Versions.

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