



# AUD

Input

Floating Point

Output

Analog

## *Floating Point or Tri-State to Analog Current or Voltage Output*

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 one 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.

The AUD is covered by ACI's Two (2) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's web site, [www.workaci.com](http://www.workaci.com).



## Specifications

<b>Supply Voltage</b>	Regulated 24 VDC (24 VDC-35 VDC) or 24 VAC (21.6 VAC-28 VAC), 50/60 Hz
<b>Supply Current</b>	208 mA maximum
<b>Signal Source (Input)</b>	Relay contact closure, transistor, or triac (24 VAC, 50/60 Hz)
<b>Signal Trigger Level (Input)</b>	Normal Mode: 5-26.4 VDC, 24-26.4 VAC      Triac Mode: 24 to 26.4 VAC
<b>Analog Output Ranges (Fixed)*</b>	0 to 1 VDC   0 to 4 VDC   0 to 10 VDC   0 to 13 VDC   1 to 2 VDC   1 to 5 VDC   1 to 11 VDC   1 to 14 VDC
<b>Output Voltage Ranges (Adjustable)</b>	Adjustable Range: 0 to 20 VDC (with adjustable offset and span)
<b>Voltage Output Load**</b>	3300Ω minimum at 20 Volts ± 10%      400Ω minimum at 10 Volts ± 10%
<b>Output Current Ranges (Fixed)</b>	Dip Switch Selectable: 0 to 16 mA, 4 to 20 mA
<b>Output Current Ranges (Adjustable)</b>	0 to 20 mA (with adjustable offset and span)
<b>Current Output Load</b>	0 to 750Ω maximum. Note: the DC supply can be 24 VDC-10% and maintain stated accuracy
<b>Accuracy (60 Hz)</b>	Absolute +/- 2% of span for adjustable ranges , 5% for preset
<b>Accuracy (50 Hz)</b>	Absolute +/- 3% of span for adjustable ranges , 5% for preset
<b>Resolution</b>	256 Steps (all ranges)
<b>Regulated Power Output (For User)</b>	24 VDC (+/- 10%), 48 mA maximum
<b>Operating Temperature</b>	32 to 120°F (0 to 48.8°C)
<b>Operating Humidity</b>	10% to 95% non-condensing
<b>Product Dimensions</b>	(L) 3.75" (W) 2.25" (H) 1.15"

\*Dip Switch Selectable      \*\*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.

## Ordering

Please select a Version (A). Choose an Optional Accessory (1) if desired. **NOTE:** Version #3: Resets to maximum signal output on start-up or if both inputs (up/down) pulse 3.5 seconds.

### A Version

- (Standard) (0008Y0A.HEX) (5, 15, 30 & 90 Seconds)
- Version 3** (0256Y0A.HEX) (45, 60, 120 & 240 Seconds)
- Version 2** (0244Y0A.HEX) (45, 60, 120 & 240 Seconds)
- Version 4** (0537Y0A.HEX) (5 Seconds, No Operation, No Operation & 360 Seconds)

### 1 Optional Accessories

- (None)
- ENC1** (ENC1 Enclosure)
- DRC** (Din Rail Mounting Kit)

## Build your part number

After completing (A) from the above table, fill in the Part Number Table below. (1) is an Optional Accessory. The "Sensor Series" is a factory default. An example part number is offered.

**AUD**

Sensor Series

**A**

EXAMPLE: AUD - Version 2

**1**

EXAMPLE: ENC1

