



Product Data

AUD

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

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 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 can be ordered with an optional ENC1 (enclosure) or DRC (Din Rail Mounting Adaptor).

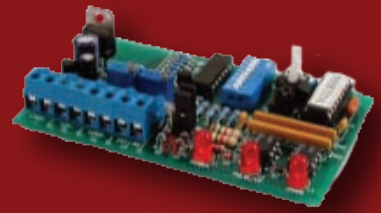
The AUD is covered by ACI's Two (2) Year Limited Warranty, which is located in the front of ACI'S SENSORS & TRANSMITTERS CATALOG or can be found on ACI's Website, which is: www.workaci.com.

Specify: AUD _____

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() Standard	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.

Interface Devices



Attributes:

- Field selectable rate of change
- Field adjustable output
- 256 step resolution
- Current or voltage output
- LED status indicators
- No wrap around
- Relay, transistor, or triac input
- Snap track included

Applications:

- Floating point to analog conversion
- Motor speed control
- Positioner and actuator control
- Variable speed drives
- Contact integration



Made in the USA

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See reverse side for product specifications
Wiring Diagrams available at www.workaci.com

TEMPERATURE
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Product Specifications

Electrical Requirements

Power Supply				
Supply Voltage	Regulated 24 VDC (24 VDC-35 VDC) or 24 VAC (21.6 VAC-28 VAC), 50/60 Hz.			
Supply Current	208mA max			
Signal Source	Relay contact closure, transistor, or triac (24VAC, 50/60 Hz),			
Signal Trigger Level	Normal Mode: 5-26.4VDC, 24-26.4VAC Triac Mode: 24 to 26.4VAC			
Input (Digital)				
Full Range Rates of Change	Standard	Version # 2	Version # 3	Version # 4
	0008Y0A.HEX	0244Y0A.HEX	0256Y0A.HEX	0537Y0A.HEX
	5 sec	45 sec	45 sec	5 sec
Custom rates of change available	15 sec	60 sec	60 sec	No Operation
Contact Customer Service	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.			
Output	Voltage Preset Ranges:	Dip Switch Selectable:		
	0 to 1VDC	1 to 2VDC		
	0 to 4VDC	1 to 5VDC		
	0 to 10VDC	1 to 11VDC		
	0 to 13VDC	1 to 14VDC		
	Voltage Ranges (Adjustable):	Adjustable Range: 0 to 20VDC (with adjustable offset and span)		
Voltage Output Load:	3300Ω minimum at 20 Volts ± 10% 400Ω minimum at 10 Volts ± 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 24VDC -10% and maintain stated accuracy.			
Current Ranges (Fixed):	Preset Ranges; Dip Switch Selectable.			
	0 to 16mA	4 to 20mA		
Current Ranges (Adjustable):	0 to 20mA (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 +/- 2% of span for adjustable ranges, 5% for preset.			
Accuracy - 50 Hz :	Absolute +/- 3% of span for adjustable ranges, 5% for preset.			
Resolution:	256 Steps			
Regulated Power Output (for user):	24 VDC (+/- 10%), 48mA maximum steps (all ranges)			
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° F (0 to 48.8° C)			
Storage Temperature	-20 to 150° F (-28.9 to 65.5° C)			
Operating Humidity	10% to 95% non-condensing			
Approvals	RoHS			

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