



ASA

Analog Signal Amplifier

The ASA is an analog signal amplifier which accepts an analog (voltage or current) signal and outputs a voltage signal. Several preset input ranges are jumper selectable. It is designed to give a Building Automation System signal output the power (wattage) to control Maxitrol™ Gas Valves normally installed in rooftop units. The top-adjust trimmer potentiometers can be used to make fine adjustments of gain and offset. The output gain can be adjusted anywhere from 1 to 20 times the input on the ASA (gain will vary depending on type of input). By using voltage divider applications, the ASA can also accept a resistance input. The offset of the output can be +/- 0 to

20 VDC. If above 30 watts, derate load current and calculate again ($P_{out} = [(V_{out}/Load) (V_{out})]$ and/or ($P_{out} = (Load Current)(V_{out})$). The ASA is field calibratable, however, factory calibration is available upon request for an additional charge. This will speed up installation time for the end user.

Applications: Provides Sufficient Power to Control Maxitrol™ Gas Valves, Increases Analog Signal Current Rating, Dimming Ballast Control (Sinking Drivers Only), Adapts Non-Compatible Signals, Resistance to Voltage Conversion, Current to Voltage Conversion

The ASA 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 website, www.workaci.com.

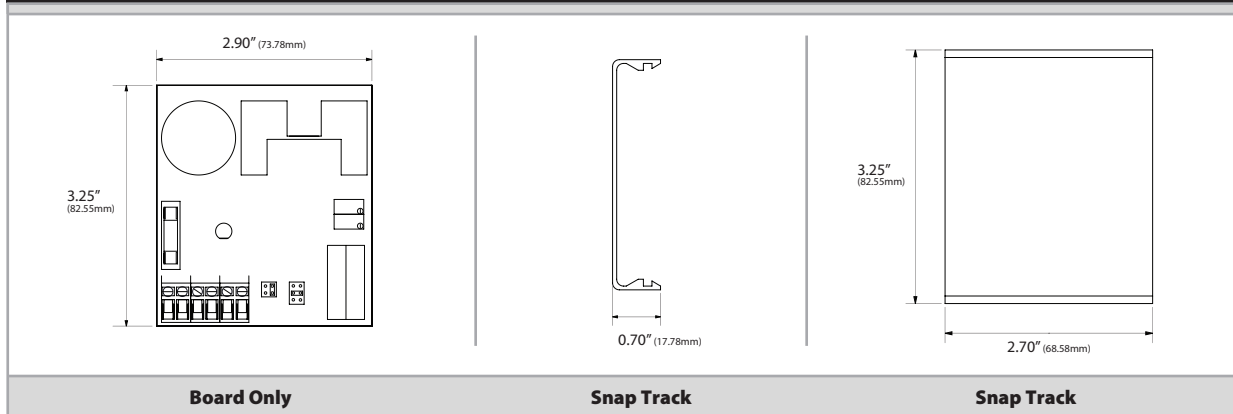
PRODUCT SPECIFICATIONS

Supply Voltage:	24 VAC +10%/-5% (0-20 VDC out), 24 VDC +/- 10% (0-18 VDC out) 25-30 VDC (0-20 VDC out)
Supply Current:	50A nominal with no load, 2.05A maximum (Dependent on Load Impedance)
Input Voltage Signal Range (@ Impedance):	0 to 20 VDC @ 200,000Ω
Input Current Signal Range (@ Impedance):	0 to 44 mA @ 250Ω
Input Resistance Signal Range:	0 to 500,000Ω
Output Voltage Signal Range:	0 to 20 VDC
Output Voltage Signal Offset:	+/- 0 to 20 VDC
Output Voltage Signal Gain:	1-20 times (output can't exceed 20 VDC)
Output Load Impedance:	10Ω minimum
Output Signal Offset (Jumper Selectable):	Zero Offset, Positive Offset, Negative Offset
Input-Output Tracking Accuracy:	+/- 2% Full Scale Output
Power Range:	2A or 30 Watts maximum
Connections:	45° Captive screw Terminal Blocks
Wire Size:	12 (3.31 mm ²) to 22 AWG (0.33 mm ²)
Terminal Block Torque Rating:	0.5 Nm (Minimum); 0.6 Nm (Maximum)
Operating Temperature Range:	-40 to 150°F (-40 to 65°C)
Operating Humidity Range:	5 to 95% non-condensing
Storage Temperature:	-40 to 150°F (-28.9 to 65.5°C)
Snaptrack Material:	Polyvinyl Chloride (PVC)
Snaptrack Flammability Rating:	UL94 V-0
Product Dimensions:	(L) 3.25" (W) 2.90" (H) 1.57" (82.55 x 73.66 x 39.88 mm)
Product Weight:	0.34 lbs. (0.156 Kg)
Agency Approvals:	RoHS2, WEEE





DIMENSIONAL DRAWING



STANDARD ORDERING

Model # Example: ASA -OR- 102030

Model #	Item #	Description
ASA	102030	Analog Signal Amplifier

ACCESSORIES

Model # Example: A/DO008 -OR- 142583

Model #	Item #	Description
A/DO008	142583	Transient Voltage Suppressor, Bi-directional, 56 VAC/DC, 1500W
A/DRC 2.70 X 3.25	142624	DIN Rail Adapter Kit

