

FEATURES

- Operational to minus 40°F and minus 40°C temperatures
- Field Selectable Input Ranges
- LED Power Indicator
- Compact and Economical
- Mounts in Snap Track

APPLICATIONS

- Provides Sufficient Power to Control Maxitrol™ Gas Valves
- Increases Analog Signal Current Rating
- Provides Control of Dimming Ballasts
- Adapts Non-compatible Signals
- Resistance to Voltage Conversion
- Current to Voltage Conversion



PRODUCT DESCRIPTION

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.

ASA 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). The offset of the output can be +/- 0 to 20 VDC.

By using voltage divider applications, the ASA can also accept a resistance input.

ORDERING INFORMATION

Specify: **ASA**

SPECIFICATIONS

Electrical Requirements

Power Supply

Supply voltage	24 VAC +10% / -5% will provide 0-20 VDC out 24 VDC +/- 10% will provide 0-18 VDC out 25 -30 VDC will provide 0-20 VDC out
Power consumption	50mA nominal with no load, 2.05 Amps maximum (dependant on load impedance)

Input (Jumper Selectable)

Voltage Range	0 to 20 VDC
Current Range	0 to 20 mA
Input Impedance	Voltage - 200,000 ohms Current - 250 ohms

Output

Voltage Range	0 to 20 VDC
Signal Offset	+/- 0 to 20 VDC
Signal Gain	Voltage - 1 to 20 times (output cannot exceed 20 VDC) Current - 1 to 20 times (output cannot exceed 20 VDC)
Offset (Jumper Selectable)	Zero Offset Positive Offset Negative Offset
Input to Output Tracking Accuracy	+/- 2% Full Scale Output
Power Range	2 Amps or 30 Watts maximum $P_{out} = [(V_{out}/Load) (V_{out})]$ $P_{out} = (Load Current) (V_{out})$ If above 30 watts, derate load current and calculate again
Load Impedance	10 ohms minimum

Mechanical Requirements

Connections

Wire Size	Up to one 14 AWG maximum
Terminal Type	45° Captive screw, moving clamp design in nickel plated copper alloy

Dimensions

3.250" (8.255 cm) L x 2.905" (7.379 cm) W x 1.575" (4.0 cm) H

Weight

3.0 oz. (85.05 grams)

Mounting

Furnished with 2.75" (6.985 cm) length of 3.25" (8.255 cm) wide snap track

Environmental Requirements

Operating Temperature	-40 to 150 deg F (-40 to 65 deg C)
Storage Temperature	-40 to 150 deg F (-40 to 65 deg C)
Operating Humidity	5 to 95% non-condensing

Specifications may change without notice to improve product performance.