



FEATURES

- Field Selectable Input Ranges
- LED Power Indicator
- Compact and Economical
- Mounts in Snap Track

APPLICATIONS

- Increases Analog Signal Current Rating
- Provides Sufficient Power to Control Maxitrol™ Valves
- Provides Control of Dimmable 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.

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% 25 VDC to 30 VDC |
| Supply current | 2.05 Amps maximum |

Input (Jumper Selectable)

| | |
|-----------------|--|
| Voltage Range | 0 to 20 VDC |
| Current Range | 0 to 20 mA |
| Input Impedance | Current - 250 ohms Voltage - 200,000 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 10 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" L x 2.905" W x 1.575" H

Weight

3.0 oz

Mounting

Furnished with 2.375" length of 3.25" wide snap track

Environmental Requirements

| | |
|-----------------------|-------------------------|
| Operating Temperature | 32 to 120 deg F |
| Storage Temperature | -20 to 150 deg F |
| Operating Humidity | 5 to 95% non-condensing |

Specifications may change without notice to improve product performance.

Call for Other Calibration Ranges and Versions.

If you have a different application or need, please call 1-800-886-2281 and discuss your needs with our Sales Engineers.