



# ASA

Input

Analog

Output

Analog

## 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). 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.





**SPECIFICATIONS**

<b>Supply Voltage</b>	24 VAC +10%/-5% (0-20 VDC out)	24 VDC +/- 10% (0-18 VDC out)	25-30 VDC (0-20 VDC out)
<b>Power consumption</b>	50 mA nominal with no load, 2.05A maximum (Dependent on Load Impedence)		
<b>Input (Jumper Selectable)</b>	Voltage Range: 0-20 VDC	Current Range: 0-20 mA	Input Impedance: Voltage: 200,000Ω/Current: 250Ω
<b>Output</b>	Voltage Range: 0-20 VDC	Signal Offset: +/- 0-20 VDC	Signal Gain: 1-20 times (output can't exceed 20 VDC)
<b>Load Impedance</b>	10Ω minimum		
<b>Offset (Jumper Selectable)</b>	Zero Offset, Positive Offset, Negative Offset		
<b>Input-Output Tracking Accuracy</b>	+/- 2% Full Scale Output		
<b>Power Range</b>	2A or 30 Watts maximum		
<b>Operating Temp/RH</b>	-40 to 150°F (-40 to 65.6°C)/5% to 95% non condensing		
<b>Product Dimensions</b>	(L) 3.25" (W) 2.90" (H) 1.57"		

**ORDERING**

Please select ASA as an Interface Device (A).

**A** Interface Device

**ASA** (Analog Signal Amplifier)

**BUILD PART NUMBER**

After completing (A) from the above table, fill in the Part Number Table below. An example part number is offered.

A

EXAMPLE: ASA

