



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.

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 web site, www.workaci.com.





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

