

Actuators with Integrated Electronics **EAXX-AXXX SERIES**

The Built-in Microprocessor Based Circuitry Accepts Milliamp, Volt & Resistance Input Signals. ***One Unit Does It All!***

The only microprocessor based actuator in its price range.

The processor based circuit provides unique features and versatility not found in any other actuators.

90° or 180° stroke, switch selectable

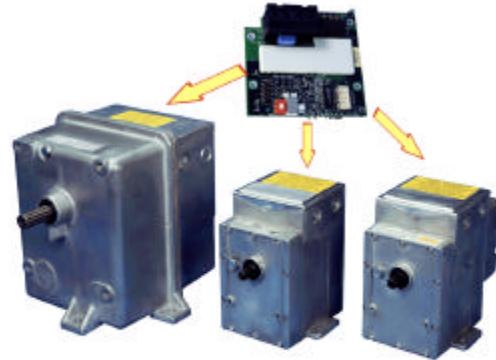
One mA and three VDC input ranges

Potentiometer input, 100 to 1000 ohms

Control overrides for either direction of travel

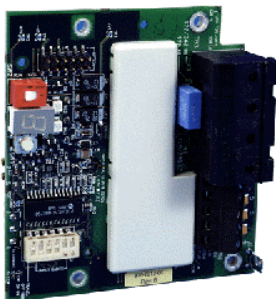
Field configurable direction of travel

NEMA 4 housing standard on most models



The circuitry is built-in. No more unsightly add-on box. List price is the same as an actuator with 658A and weatherproof housing

Reduce Your Inventory! Rapid delivery can be so critical in those “down” situations. The versatility of the analog circuit means that one unit can replace several of the older models. Switch selectable input circuitry accepts current, voltage or resistance input signals. All of the analog input actuators are manufactured for a 180° stroke. Flip a switch and it becomes a 90° actuator. Need a custom stroke? 15 turn zero and span trimpots allow you to set any stroke length from 60° to 180°. Need to change the direction of travel? A simple procedure in configuration mode will do it. No wiring changes required.



Reliability is assured by the use of high temperature rated components. Every item is rated for continuous operation at a temperature of 105°C. Some components are rated much higher.

Plastic safety barriers on the mains terminal strip and over a portion of the circuit board provide protection against shock hazard during installation.

General Specifications:

Current Input:	Factory set at 4 to 20mA. Span adjustable from 10 to 23mA. Zero point adjustable from 0 to 6mA.
Voltage Input:	0 to 1Vdc, 1 to 5Vdc and 3 to 15Vdc, switch selectable. Other ranges can be set in the configuration mode.
Resistance Input:	Any potentiometer value from 100 Ohms to 1000 Ohms can be used for the input signal.
Input Impedance:	mA Input: 250 Ohms Vdc input: >100K Ohms
Direction of Travel:	Factory set to CCW with increasing signal. Can be changed in configuration mode.
Stroke Length:	Factory set for 180° rotation at full scale. Can be changed to 90° by setting a switch. Other lengths can be achieved in the configuration mode.
Control Overrides:	Dry contact closure can force the actuator to either end of travel.
Deadband:	Adjustable from 1% to 6% of span in 0.4% increments.
Ambient Temperature:	-40° to 58°C.
Humidity:	5 to 95% rh, non-condensing.
Power Requirements:	See individual model numbers. Rated to operate within 10% of nominal voltage.
Option Board:	4 to 20mA position signal and two form C relays rated at 3A, resistive. The relays can be set to activate at any point within the operating range.



EA40 Series Specifications:

Torque:	50 in-lbs
Dimensions:	7" H x 5-3/8" W x 8-1/8" D
Weight:	8 lbs
Case:	Die cast aluminum with two 1/2" knockouts each side.
Motor and Gear Train:	Oil immersed
Ambient Temperature:	-40 to 136°F (-40 to 58°C).
Humidity:	5 to 95% rh, non-condensing
Power Consumption:	40W
Mounting:	Damper-Upright recommended Valve-Any upright position with actuator above centerline of valve body



EA50 Series Specifications:

Torque:	60 or 220 in-lbs
Dimensions:	7" H x 5-3/8" W x 6-5/16" D
Weight:	8 lbs
Case:	Die cast aluminum with two 1/2" knockouts each side
Motor and Gear Train:	Oil immersed
Ambient Temperature:	-40 to 136°F (-40 to 58°C).
Humidity:	5 to 95% rh, non-condensing
Power Consumption:	45W
Mounting:	Damper-Upright recommended Valve-Any upright position with actuator above centerline of valve body



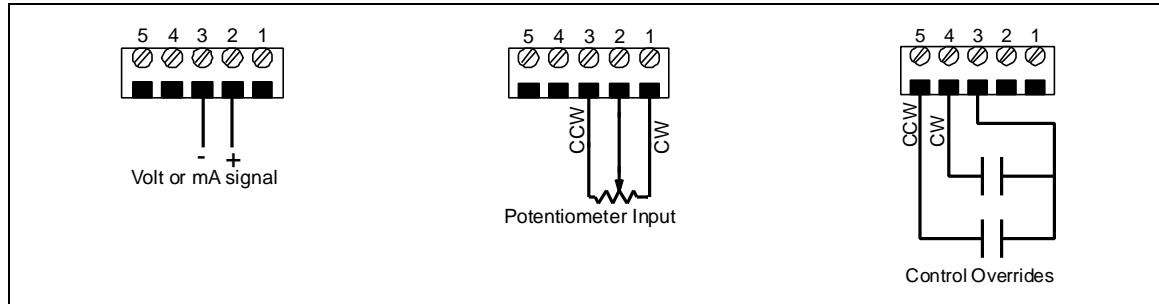
EA70 Series Specifications:

Torque:	550, 1100 and 1300 in-lbs
Dimensions:	9-9/16" H x 9-1/2" W x 10-1/2" D
Weight:	30 lbs
Case:	Die cast aluminum with two 1/2" knockouts each side
Motor and Gear Train:	Oil immersed
Ambient Temperature:	-40 to 130°F (-40° to 54°C)
Humidity:	5 to 95% rh, non-condensing
Power Consumption:	190W
Mounting:	Damper - Upright recommended Valve - Any upright position with actuator above centerline of valve body

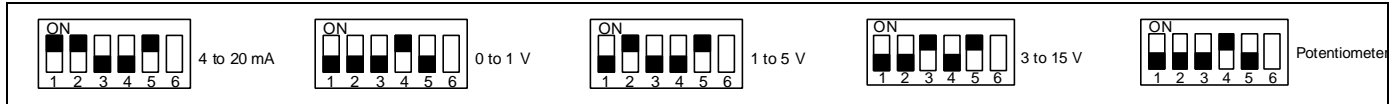


EAXX-A Series Wiring and Switch Settings

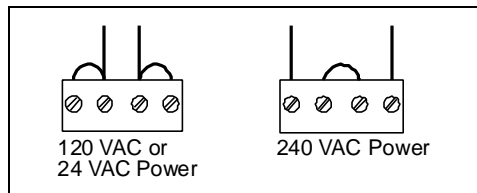
Control Connections



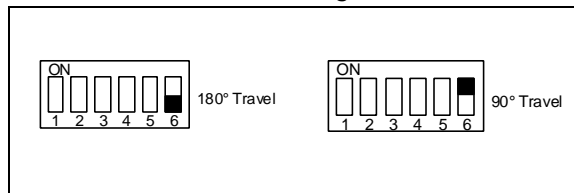
Range Settings



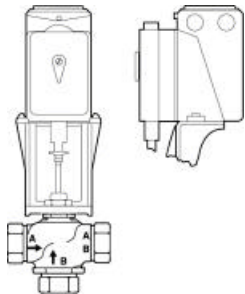
Power Connections



Stroke Length

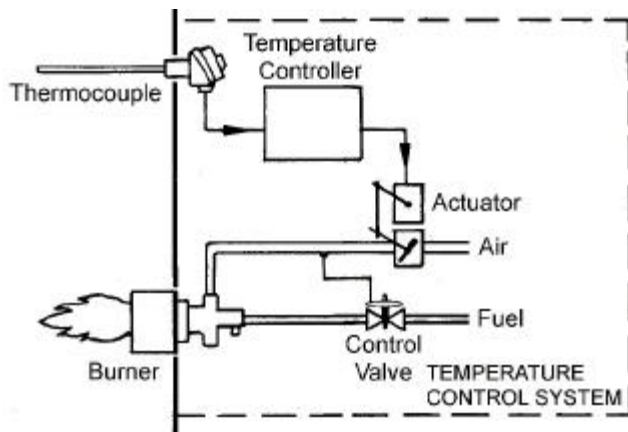


Typical Applications



Valve Actuator

The EAXX-A actuators provide full proportional control with valve applications. They can be applied to any Eurotherm/Barber-Colman, CII Controls, Siebe, or Invensys Building Systems valve body providing exceptional control of fluid flow. These are often used in heating and cooling applications.

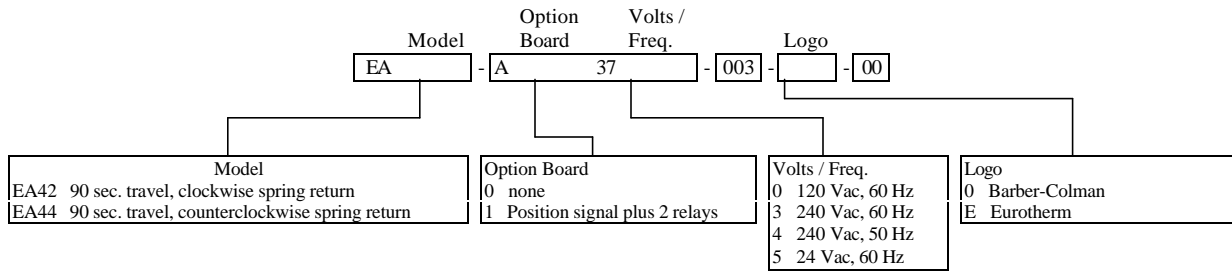


Combustion Control

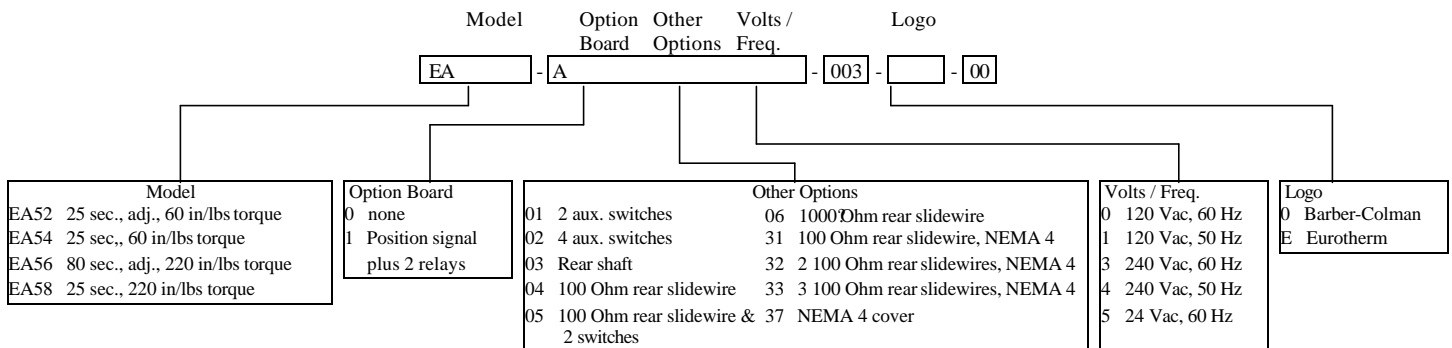
EAXX-A actuators provide outstanding performance when used to control combustion air on industrial burners. The rugged design of the EA actuators provides reliable operation under high ambient temperature conditions.

Ordering Codes:

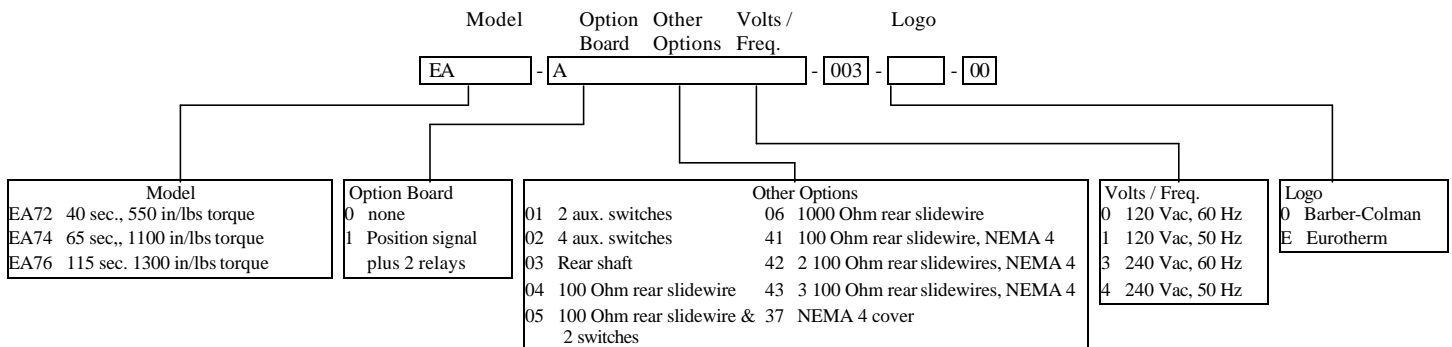
EA4X-A Series Spring Return Actuators



EA5X-A Series Non-spring Return Actuators



EA7X-A Series High Torque Actuators



大连爱克新仪器有限公司

www.actionio.com.cn

辽宁省大连市中山区七七街23号海鹰大厦403室

电话: 0411-82650498 ; 传真: 0411-82650478

Email: Sales@actionio.com.cn Support@actionio.com.cn

