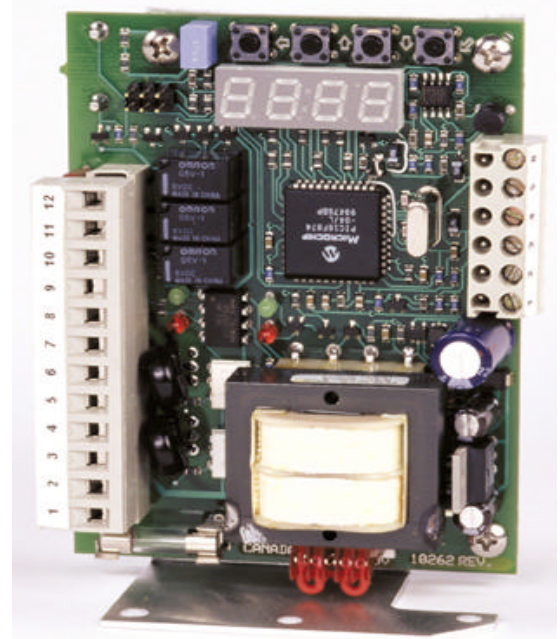# *EASC*
Microprocessor Based Analog Controller

The Electric Actuator Smart Controller (*EASC*) card provides accurate positioning control of electric motor actuators using an analog input signal. Setup and calibration is greatly simplified using microprocessor technology. There are no DIP switches to set or trimming potentiometers to adjust. Setup is quick and easy using the *EASC* Menu viewed on an LED display. No external meters are required, even for potentiometer setup. Once the initial menu settings are chosen, the *EASC* performs a self-calibration routine, applying the menu selections to actual actuator performance. Calibration values are then stored in permanent nonvolatile memory.

<u>F e a t u r e s</u>

- Mounts internally in:
  RCS actuator models: MAR-10, MAR-50, MAR-90, MAR-100, MAR-160, MAR-250, MAR-800 & all SurePowr models.
  Andco actuator models: Eagle, 7000, 8000, QR and QRG.

- Onboard LED display facilitates setup and calibration using the *EASC* Menu Setup.

- Menu selection of input/output ranges including 4-20 mAdc, 1-5 Vdc, 2-10 Vdc and 0-10 Vdc, or virtually any custom range required.

- Automatic calibration: no resistors to add, no jumpers, trimming potentiometers or DIP switches to adjust. Calibration is as simple as pressing a button.

- Three relay outputs: fault, full closed and full open.

- Menu selectable fail options.

- Intelligent positioning reduces motor cycling, increases motor life and extends the actuator duty.

- Auto jog feature. Constantly corrects and refines the positioning accuracy.

- Quick disconnect terminal strips facilitate fast and easy actuator maintenance and troubleshooting.

- Always wires the same; no need to determine rotation direction during installation; rotation is selected using the *EASC* Menu.

- Robust power switching components, designed specifically for actuator motors, virtually eliminate field failures.

Specifications

Menu Selection and Calibration Keyboard

Led Display

Input Signal, Output Signal and Potentiometer Terminals

Power, Motor, Limit Switch and Alarm Terminals

Fuse

Power Requirements:
Model SCC10-115/230A: 115 or 230 Vac, 1 phase, 50/ 60 Hz. (Jumper selectable)
Model SCC10-24VAC: 24 Vac, 50/60 Hz.

Input Command Signal:
Menu selectable factory defaults:
- 4 – 20 mAdc
- 1 – 5 Vdc
- 2 – 10 Vdc
- 0 – 10 Vdc

Infinite adjustment using *EASC* Menu System

Output Command Signal:
Menu selectable factory defaults:
- 4 – 20 mAdc
- 1 – 5 Vdc
- 2 – 10 Vdc
- 0 – 10 Vdc

Infinite adjustment using *EASC* Menu System

Signal Impedance:
Input: 250Ω current, 200KΩ voltage
Output: maximum load 500Ω current, 500Ω voltage

Power Output:
Solid state, isolated from the input command and output position signals and rated at:
- 5 A continuous at 115 Vac
- 5 A continuous at 230 Vac
- 5 A continuous at 24 Vac
- 10 A continuous at 24 Vdc

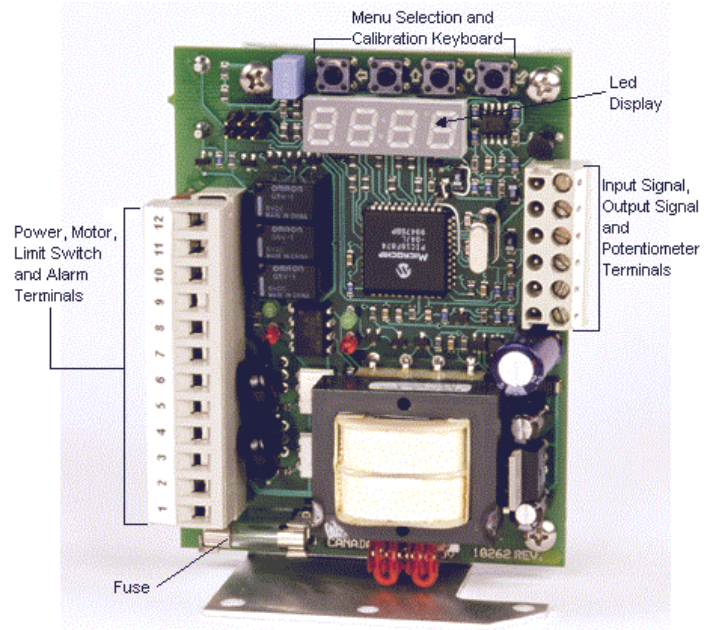All ratings assume the *EASC* is mounted on the actuator base plate.

Sensitivity:
Fully adjustable from 0.5% of total span, factory set to 1% of total span

Dead band:
Automatically set during calibration. Factory default at 1% of total span. Additional settings are available using the *EASC* Menu System.

Zero Adjustment:
Automatically set during calibration.

Span Adjustment:
Automatically set during calibration.

Split Range:
Settable within the span range using at least 1.5 Vdc or 3 mAdc of input

Ambient Temperature:
- 40º F (with heater) to +150º F (-40º to +65º C)

Action on Loss of Command Signal:
Factory default:
- Fail in last position (no movement)
- For a setting of **ZERO** input signal, the system fails to minimum signal position

Additional settings available through *EASC* Menu:
- Fail open (maximum signal value)
- Fail closed (minimum signal value)
- Fail to a preset position

Relay Outputs:
Three dry contacts outputs:
- Fault indicating loss of power, fuse failed, command signal loss or failure to move to position in preset time
- End of travel open
- End of travel closed
- Contact Ratings:
  - 1A @ 30Vdc, 0.5A @ 135Vac resistive load

Size:
3.50 x 1.63 x 4 in.