

D.C. Analog - EASC SCC-05



Application

The SCC-05 EASC (Electric Actuator Smart Controller) card is a cost-effective means for accurate and precise positioning control of RCS actuators utilizing an analog input signal. The EASC "One-Switch" setup system eliminates the need for external meters, dip switches, trimming potentiometers, or a display screen on the module. Simply set the full open and full closed positions, and the microprocessor technology does the rest. For control applications requiring an input-only control requirement, the SCC-05 provides excellent performance and a variety of standard features suitable for today's challenging automation and control requirements.

Features

Mounts internally in RCS actuator models: MAR-10, MAR-50, MAR-90, MAR-100, MAR-160, MAR-250, MAR-800 & all SurePowr models.

- Simple single switch setup allows complete control of controller configuration
- One step selection of input/output ranges including 4-20 mA_{dc}, 1-5 V_{dc}, 2-10 V_{dc} and 0-10 V_{dc}, or virtually any custom range required
- "Learns while it runs" tuning makes configuration simple
- Selectable fail options
- Intelligent positioning reduces motor cycling, increases motor life and extends the actuator duty
- Optional Modbus RTU remote control over a RS-485 network. Complete access to all controller functions from your factory automation system
- 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 at setup
- Robust power switching components, designed specifically for actuator motors, virtually eliminate field failures

Specifications

Power Requirements

Model SCC05-115/230 A:

Single phase, 115 or 230 VAC 50/60 Hz. (Jumper selectable)

Input Command Signal

Menu selectable factory defaults:

- 4-20 mA_{dc}
- 1-5 V_{dc}
- 2-10 V_{dc}
- 0-10 V_{dc}

Infinite adjustment during System

Signal Impedance

Input: 250Ω current, 200KΩ voltage

Power Output

Solid state, isolated from the input command signal and rated at:

- 5 amps continuous at 115 VAC
- 5 amps continuous at 230 VAC

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

Sensitivity

Full scale sensitivity adjustable from 0% to 9%

Dead Band

Automatic deadband system with manual override.

Zero Span Adjustment

Simple setup, just set the fully closed position and fully open positions and input calibration is automatically adjusted.

Split Range

Settable within the span range using at least 1.5V_{dc} or 3mA of input.

Remote Control

Optional Modbus RTU control of all controller functions over a RS-485 multi-drop network

Ambient Temperature

-40°F (with heater) to +150°F (-40°C to +65°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 at setup:

- Fail open (maximum signal value)
- Fail closed (minimum signal value)
- Fail to a preset position

Size

3.5 x 1.63 x 4 in.



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