



SWITCHING CURRENT CONTROLLER

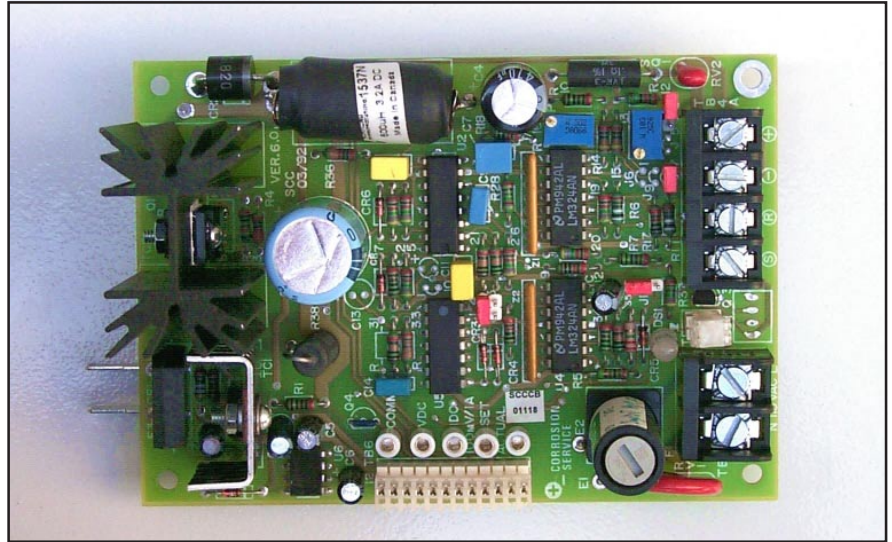
Controlled Current for Corrosion Prevention Systems

Switching Current Controllers (SCC's) convert 120 or 240 VAC power to controlled direct current for use in electrochemical corrosion control systems. They operate as single loop controllers in either current or potential control mode.

Current control maintains a constant current independent of changes in electrochemical load impedance, while potential control maintains a preset structure to reference electrode potential.

SCC type current sources offer the following features:

- *Compact Design*
- *Sophisticated Fault Detection*
- *Fail Safe on Fault*
- *Short Circuit Proof*
- *Easily Interfaced*



Models

The SCC is available in two models (see specifications overleaf).

The SCC25-1 (utilized in E-PAK cathodic protection systems for hydraulic elevator cylinders), is a 25 Volt, 1 Amp current source supplied c/w power transformer and indoor enclosure.

The SCC25-2 is a 25 Volt, 2 Amp current source supplied either as a component in a multiple SCC enclosure or as a discrete current source c/w power transformer & enclosure.

Control Flexibility

The SCC accepts an external shut-down level, enabling synchronized current interruption of multiple SCC's.

Adjustable levels for Current and Potential can be set internally or supplied from an external source.

Ease of Monitoring

An external LED drive provides both "In Control" and "Fault" indications. The GREEN "In Control" LED flashes RED when the SCC voltage or current limits. The SCC detects structure-anode polarity reversal and open '+' and '-' cabling when used with the E-PAK/A anode.

Safety

SCC's can be configured to shut-down DC output on fault detection, protecting both the corrosion control system and the SCC unit from further damage.

As the SCC is also "short circuit proof", a direct short may be placed across the DC output terminals while the current controller is operating without damage to the unit.

For additional information please contact the office nearest you.

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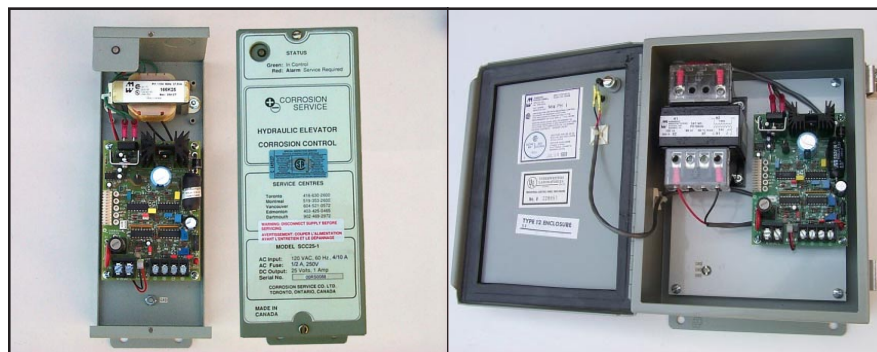
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Model SCC25-1 Specifications	Model SCC25-2 Specifications
<ul style="list-style-type: none"> • AC Power Input 120 VAC, 1 Amp (240 VAC, 50 Hz also available) Fused 3/4A SLO-BLO • DC Power Output 25V, 1 Amp • Thermal Limit 40°C (104°F) Max. Ambient • Enclosure (E-PAK configuration shown above) <u>Dimensions:</u> 311mm L x 102mm W x 102mm D (12.25" L x 4" W x 4" D) <u>Total Weight:</u> 6.8 kg (15 lbs.) <u>Standard:</u> Steel, NEMA/CEMA 1, Grey, c/w LED and 4 knockouts for 1/2" & 3/4" conduit. <u>Optional:</u> NEMA/CEMA4 and Pole Mount Hardware. 	<ul style="list-style-type: none"> • AC Power Input 120 VAC, 3/4 Amp (220 VAC, 50 Hz also available) Fused 1A SLO-BLO • DC Power Output 25V, 2 Amp • Thermal Limit 40°C (104°F) Max. Ambient • Enclosure <u>Dimensions:</u> 254mm L x 203mm W x 102mm D (10" L x 8" W x 4" D) <u>Total Weight:</u> 9.1 kg (20 lbs.) <u>Standard:</u> Steel, NEMA/CEMA 12, Grey, c/w LED. <u>Optional:</u> NEMA/CEMA4 and Pole Mount Hardware

Optional Equipment

The following optional equipment is also available for use with SCC units. Please refer to data sheet No. 3616 or contact us for details.

<ul style="list-style-type: none"> ACB2PS: Analog Capture Board Product Series • ACB2 - Analog Capture Board • ACB2I - Isolator • ACB2PS - Power Supply • DAB2 - Digital to Analog Board • RB3 - Relay Board AVIB1: Analog Voltage Isolation Buffer 	<ul style="list-style-type: none"> BD1: Buffer/Driver CMRB2: Common Mode Rejection Board FLT1: Filter Board GAM1: Reference Electrode Alarm GSM1: Reference Electrode Selector RB1: Relay Board RMU2: Remote Monitoring Unit
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