Free Programmable | Multi Protocol | Real Time Clock | SCC-420

Expandable I/O | Ethernet Port

15 POINT FLEXIBLE I/O CONTROLLER (MULTI PROTOCOL)

OVERVIEW

Looking for a low cost premium, **fully programmable** BAS controller that can support multiple protocols? Then **SCC-420** is the perfect fit. Control virtually any terminal unit application such as: Rooftop Units, Fan Coil Units, Heat Pumps, Unit Ventilators, Air Handlers, and Plant Control. Seamlessly and easily pass data between **BACnet/IP**, **LON**, and **Modbus** networks.

The Circon™ **SCC-420** combines easy-to-configure I/O with flexible protocol gateway functionality, all at an incredible price per point and all as standard features.

The **SCC-420** includes **15** local I/O points that can be increased to 47 points using the Circon UIO-184 I/O Expansion module.

Circon's acclaimed Catalyst® graphical programming tool is used to freely program **SCC-420** for an exceptional application and gateway flexibility.

APPLICATIONS

Use **SCC-420** with its built-in I/O points to control any unitary equipment or implement complex plant control or a simple remote I/O device.

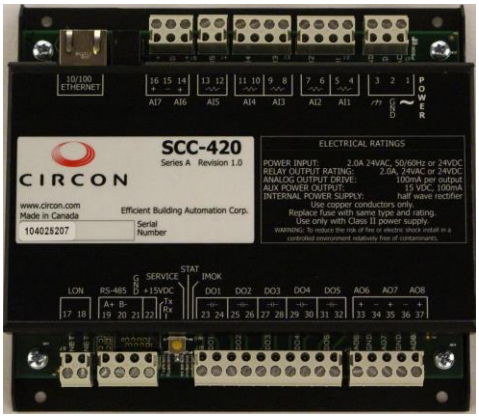
Read/Write and pass data between BACnet, LON, and Modbus networks. Mathematically or logically manipulate data before transferring to other networks.

Circon Catalyst includes over 150 function/program blocks with support to create your own custom blocks. EBAC will also provide you with free sample program library which can readily be loaded into any **SCC-420**.

EBAC's Windows-based configuration and programming software for the **SCC-420** is available at no charge, and are fully compatible with Echelon's LNS® platform.

ORDERING INFORMATION

Part number: 10-0470



FEATURES

- → Powerful, industry-leading 32-bit ARM processor
- → Incredible price per point
- → Onboard scheduling, trending, alarming
- → Fully programmable with flexible and easy-to-use Circon Catalyst® programming tool
- → High performance BACnet/IP capability with support for variety of analog, digital and multi-state server and client objects with create as you go feature. Built in BACnet browser.
- → High performance LonTalk capability with support for variety of static and dynamic network variables including structured variables with create as you go feature.
- → Built-in Modbus RS-485 expansion port, communicate with utility meters, VFDs, etc.
- → Highly flexible protocol gateway functionality
- → 5 relay outputs and 3 analog outputs simplify connecting to a variety of digital, floating and analog-controlled actuators
- → 5 resistive inputs connect to a variety of sensors
- → 2 voltage inputs for CO2, current monitoring, etc.

ASHRAE BACnet™ Modbus LONMARK 3.4

SPECIFICATIONS

SCC-420

I/O CAPABILITY

7 Inputs:	Four 10 kΩ thermistor, Precon curve: Type II model 24 or Type III model 3, or dry contact
	One 1 kΩ RTD or dry contact
	Two voltage inputs, 0-10 VDC
3 Analog Outputs:	0-10 VDC, maximum drive of 100 mA per output
5 Digital Outputs:	Dry contact relay: 2.0 A maximum at 24 VAC or 24 VDC
Expansion I/O:	Up to 2 UIO-184 I/O Expansion modules

HARDWARE

Processor:	ARM9 @ 400MHz
Memory:	64 MB Flash, 64MB RAM
EIA-709 (LonTalk) Port:	TP/FT-10 @ 78 kbps (LON)
Serial Ports:	1 RS-485 expansion port (Modbus RTU Master or Expansion I/O)
Ethernet Ports:	1 RJ-45 10/100 Ethernet (BACnet/IP, HTTP)
On Board Aux Power:	15 VDC @ 100mA To Power Field Sensors

POWER SUPPLY

Controller:	2.0 A, 24 VAC, 50-60 Hz, or 24 VDC
Fuse:	2.0 A slow-blow (Bussmann GMD-2.0A, Littelfuse 23902.0A)
Rectifier:	Half-wave

MECHANICAL

Operating Temperature:	32°F to 122°F (0°C to 50°C)
Operating Humidity:	5% to 95% RH (non-condensing)
Weight:	15 oz. (420 grams)
Enclosure Dimensions:	1.0” x 5.6” x 6.1” (25.4mm x 142.2mm x 155.6mm)
Enclosure Material:	Metal
Mounting:	Four sheet metal screws

AGENCY LISTINGS AND REGULATORY COMPLIANCE

Class II device (when powered by a class II supply)

CSA(C US) 22.2 #205-M1983, #950-M89 (Pending)

Part 15, Class B of the FCC Rule for Radio Frequency Devices

EMC Directive 89/336/EEC (Pending)

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DOCUMENT # 80-0426 / REVISION 2.0 / PRINTED IN CANADA