

Easy To Use

Easy Graphical Programming

SCC-520

Easy To Learn

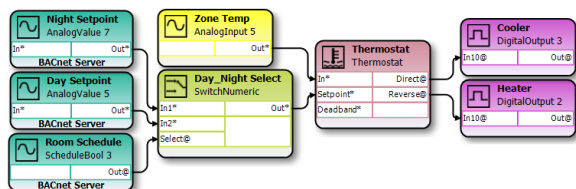
BACnet & Modbus

Real Time Clock

15 POINT (EXPANDABLE) PROGRAMMABLE BACNET CONTROLLER

OVERVIEW

SCC-520 is a powerful graphically programmable BACnet®/IP controller with built-in support for both BACnet® and Modbus protocols at no extra charge. Achieve simple or highly complex programs with Circon™'s acclaimed and easy to use **Catalyst®** graphical programming:



Catalyst® software is included as part of **BACnet Integrator™** software suite that is used to program the **SCC-520** controller. This software suite is a stand alone windows based software and includes a powerful BACnet® discovery/explorer feature for extremely quick and easy device and object discovery.

SCC-520 has 15 local I/O points that can be increased up to 47 points via expansion bus I/O modules (to be released).

APPLICATIONS

SCC-520 with its built-in I/O can be used to control any unitary equipment, implement complex plant control or be used as simple remote I/O device.

Catalyst® includes over 160 function/program blocks with support for BACnet® server, BACnet® client, Modbus master, math, logic, and many other functionalities. Because of its graphical nature, easily trouble shoot your programs as well as quickly teach your co-workers or new technicians.

Support for both BACnet®, and Modbus protocols, allows **SCC-520** to also be used as a powerful, inexpensive gateway device.

ORDERING INFORMATION

Part number: 10-0520



FEATURES

- Powerful, industry-leading 32-bit 400 MHz ARM processor
- Incredible price per point
- Onboard BACnet® scheduling, and trending
- Fully programmable with easy-to-use **Catalyst®** graphical programming windows based software. Software also has a built-in powerful BACnet® explorer/discovery feature and comes free with controller purchase.
- High performance BACnet®/IP capability with support for variety of analog (64), digital (64), multi-state (64), schedule (4) and trend (24) BACnet® objects. BACnet® client objects are also available to read/write data to 3rd party devices and equipment.
- Built-in Modbus RS-485 port, communicate with measurement and verification meters, VFDs, etc.
- 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.

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: 1.0 A maximum at 24 VAC or 24 VDC. Relays are rated for pilot duty only.
 Power external loads from separate transformer. Install external transorbs as needed.

Expansion I/O: Up to 2 I/O expandable modules (to be released)

HARDWARE

Processor: ARM9 @ 400MHz

Memory: 64 MB Flash, 64MB RAM

Serial Ports: 2 RS-485 expansion ports (Modbus RTU Master, Expansion I/O (future))

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
 Part 15, Class B of the FCC Rule for Radio Frequency Devices
 EMC Directive 89/336/EEC



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