Programmed empowerment

Take ownership of your personal environment with the Reliable Controls® SMART-Space Controller™ (SSC), a fully programmable BACnet® controller with multi-sensor capability and ten-point, on-screen direct control.
### SMART-Space™ Controller

#### Tech Specs

**Supply Voltages**
- 24 VAC/VDC ± 15%
- 10 VA (SSC, SSCE)
- 65 VA (SSCP including relay outputs)

**Display**
- Four 0.6” digits.
- Six 0.3" characters
- Eleven icons: Auto, On, Off, Cool, Occupied, Heat, Fan, Fan Speed, AM, PM, and Day of the Week
- Backlit for easy viewing in dim light
- Display Area 36 mm x 36 mm (1 1/8” x 1 3/8”)

**Temperature Specifications**
- 12-bit A/D converter
- Range: -5 °C to 65 °C (-23 °F to 149 °F)
- ± 0.3 °C (0.5 °F) resolution
- User calibrated to ± 0.1 °C (0.18 °F) accuracy

**Humidity Sensor** (for -H models)
- 0.1% resolution
- 10-90% range
- ± 1.8% RH accuracy over range

**Occupancy Sensor** (for -OC models)
- Passive Infrared Radiation (PIR) sensor
- 64 detection zones
- 100° horizontal range / 82° vertical range
- 5 m (16.4 ft.) max. detection distance

**Buttons**
- 3 custom silicon rubber buttons
- Button functions: select, plus, and minus

**CO2 Sensor** (for -CO2 models)
- Non Dispersive Infrared Optical Sensor
- 0-2000 ppm range
- Accuracy ±50 ppm
- Automatic calibration built in
- Non Linearity < 1% of full scale
- Power: adds 2 mA to the base SSC

**X-Port-2**
- Access port for PC connection using X-Port-2™ converter

**Communications**
- MS/TP BACnet slave @ 76800 baud max with AutoBaud
- Up to 200 SSCs per network

**Inputs**
- 12-bit A/D converter
- Up to 4 inputs
- 1 dedicated temperature sensor
- Jumper selectable 0-10 VDC, 4-20 mA, thermistor / dry contact

**Outputs**
- Up to 4 outputs (combination of universal and relay)
- Universal supplies 12 VDC, 20 mA @ 12-bit DAC
- Relay switches 24 VAC/VDC @ 0.5 A

**Real-Time Clock (optional)**
- ± 1 second per day

#### Features

**Aesthetic Design**
- Smooth contour lines
- Slim profile

**Protocol**
- BACnet MS/TP Slave

**4 Control-BASIC Programs**
- User programmable control strategy in a readable, BASIC-like language
- 2000 bytes per program

**Up to 4 Inputs**
- 1 dedicated temperature sensor
- Universal ranges
- Jumper selectable 0-10 VDC, 4-20 mA, thermistor/dry contact

**Up to 4 Outputs**
- Jumper selectable to be universal or relay
- Universal supplies 0-12 VDC 20 mA @ 12-bit D/A converter
- Relay switches 24 VAC/VDC @ 0.5 A

**32 Variables**
- Selectable standard and custom ranges, as well as fixed or program-driven values

**2 PID Loops**
- Standard P, PI, or PID controller for closed loop control

**2 BACnet Trend Log Multiple**
- Capable of storing program-timed or runtime-triggered values
- Up to 8 points per trend

**1 System Group**
- Allows related points to be grouped on one display
- 30 points per group

**1 BACnet Schedule**
- 3 time value pairs for each weekday
- 8 special events

**2 Custom Tables**
- For creating custom input ranges and Control-BASIC lookup tables

**LCD**
- Displays up to 10 points
- Adjustable backlight timeout

**Warranty**
- 5 years
- 1 year for humidity sensor and CO2 sensor

**Certifications**
- BTL listed (B-GEN)
- FCC CFR 47 Part 15B
- CE

**Memory/RTC Backup**
- 72 hour backup
- 10 years for database

**Wiring Terminals**
- 16 to 24 AWG (1.31 mm² to 0.21 mm²)
- Stranded or solid core
- Copper conductors only

**Dimensions**
- 12 cm L x 7 cm W x 3.2 cm H
  - (4 3/8" L x 2 3/4" W x 1 3/4" H)

**Weight**
- 0.13 kg (0.287 lb.)

**Ambient Limits**
- Operating: -20 °C to 55 °C (-4 °F to 131 °F)
- Shipping: -40 °C to 60 °C (-40 °F to 140 °F)
- Humidity: 10% to 90% RH non-condensing

#### Ordering

**SSC** (standard model)
- 3 inputs (2 universal and 1 dedicated temperature sensor)
- 2 outputs (jumper selectable to be universal or relay)

**SSCE** (enhanced model)
- 4 inputs (3 universal and 1 dedicated temperature sensor)
- 4 outputs (2 jumper selectable to be universal or relay, and 2 dedicated relay outputs)

**SSCP** (package model)
- 4 inputs (3 universal and 1 dedicated temperature sensor)
- 4 outputs (1 jumper selectable to be universal or relay, and 3 dedicated relay outputs)

**Options**
- -C adds real-time clock and backup
- -CO2 adds 0-2000ppm CO2 sensor
- -D adds °C / °F selector switch
- -H adds humidity sensor
- -OC adds occupancy sensor
- /W for solid white color
  - (warm gray is standard)

* All models are shipped with onboard thermistor temperature sensor.

See submittal sheet for more detailed ordering options

#### Application Diagram

![Application Diagram](image-url)

**Power**
24 VAC/VDC

**BACnet MS/TP (EIA-485)**

**X-Port 2**
(Access for PC connection using X-Port 2 converter)

**Inputs**

**Outputs**

**Dealer Information:**