

## 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.



## 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 3/8" x 1 3/8")

### Temperature Specifications

- 12-bit A/D converter
- Range: 0 °C to 40 °C (32 °F to 104 °F)
- ± 0.1 °C (0.18 °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

### CO<sub>2</sub> 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 to one display
- 30 points per group

### 1 BACnet Schedule

- 4 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 CO<sub>2</sub> sensor

### Certifications

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

## 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 CO<sub>2</sub> 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

### Memory/RTC Backup

- 72 hour backup
- 10 years for database

### Wiring Terminals

- 16 to 24 AWG (1.31 mm<sup>2</sup> to 0.21 mm<sup>2</sup>)
- Stranded or solid core
- Copper conductors only

### Dimensions

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

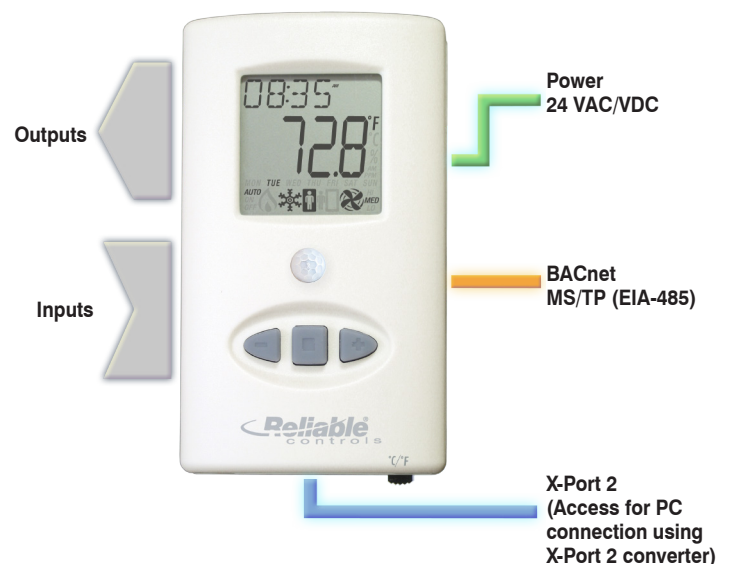
### Weight

- 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

## APPLICATION DIAGRAM



Dealer Information: