Take ownership of your personal environment with the Reliable Controls® SMART-Space™ Controller, a fully programmable BACnet controller with multisensory capability and 10-object, on-screen direct control. The SMART-Space Controller is designed for small object-count, standalone, or distributed network applications that support up to 200 SMART-Space Controllers per network.

Controller models feature one onboard temperature sensor and support for up to three universal inputs and five outputs. Order models with a combination of additional sensors and a real-time clock.

| | |
|---|---|
| Project: | Dealer Information: EMS Energy Management Systems (Pvt) Ltd. |
| Engineer: | |
| Approved by: | |


© 2000-2026 Reliable Controls® Corporation. All rights reserved.


Designed and manufactured in Canada for use in distributed control systems.

## PRODUCT FEATURES

### Aesthetic Design

- Smooth contour lines.
- Full glass interface.

### Streamlined Display

- Four 16.9 mm (0.7") digits.
- Six 6.8 mm (0.3") characters.
- 11 icons: Auto, On, Off, Cool, Occupied, Heat, Fan, Fan Speed, AM, PM, and Day of the Week.
- Backlit for easy viewing in dim light.

### Protocol

- BACnet MS/TP subordinate.

### Four Control-BASIC Programs

- Programmable control strategy in a readable, BASIC-like language.
- 2,000 bytes per program.

### Two Loops

- Standard P, PI, or PID controllers for closed loop control.

### Two Multipoint Trend Logs

- Store up to eight objects in each trend log.
- Record values at user-defined intervals.
- Dynamic; user assigned.

### One System Group

- Group related objects on one display.
- 30 unique objects per group.

### One Schedule

- Up to seven on/off times for each weekday or exception.

### 32 Values

- Select standard and custom ranges as well as fixed or program-driven values.

### Two Tables

- Create custom input ranges and Control-BASIC lookup tables.


© 2000-2026 Reliable Controls® Corporation. All rights reserved.


Designed and manufactured in Canada for use in distributed control systems.

## TECHNICAL SPECIFICATIONS

### Supply Voltages

- 24 VAC ±15% 10 VA maximum, 50/60 Hz.
- 24 VDC ±10% 5 W maximum.

### Display

- 51.5 mm x 51.5 mm (2" x 2").
- Black and white.

### Temperature Specifications

- 12-bit A/D converter.
- User calibrated to ±0.1°C (0.18°F) accuracy.
- Onboard thermistor: 0°C to 40°C (32°F to 104°F).

### Humidity Sensor (-H Option)

- 0.1% display resolution.
- 0%–100% range.
- Accuracy ±2% maximum from 0% to 90%.

### Occupancy Sensor (-OC Option)

- Passive infrared radiation sensor.
- 64 detection zones.
- 94° horizontal range/82° vertical range.
- 5 m (16.4 ft) maximum detection distance.

### Buttons

- Four touch buttons.

### $CO_2$ Sensor (-CO2 Option)

- Automatic background calibration period of 8 days.
- Nondispersive infrared sensor.
- 0–2,000 ppm range.
- Accuracy ±50 ppm.
- Nonlinearity <1% of full scale.

### Dimensions

- 12 cm L x 8.6 cm W x 3.2 cm H
  (4 3/4" L x 3 3/8" W x 1 1/4" H).

### Communications

- One EIA-485 port that supports a baud rate up to 76.8 kbps.
- Auto-baud detection.
- One micro-USB port to locally access the controller using an X-Port-2 Converter.
- Supports up to 200 SMART-Space Controllers per network.

### Universal Inputs

- 12-bit A/D converter.
- Analog: 0–10 VDC, 4–20 mA, thermistor.
- Impedance:
  - 3 MΩ on 0–10 VDC range.
  - 250 Ω on 4–20 mA range.
  - 20 kΩ on thermistor range.
- 24 VAC overvoltage protection.

### Universal Outputs

- 12-bit D/A converter.
- Analog: 0–12 VDC.
- Binary: Software configurable between 0 and 12 VDC.
- Output power: 75 mA at 12 VDC source, -10 mA sink.
- 24 VAC overvoltage and short protection.
- Use jumper to select solid-state relay.

### Wiring Terminals

- Power terminals: 12–22 AWG (3.31–0.33 $mm^2$).
- I/O terminals: 16–24 AWG (1.31–0.21 $mm^2$).
- Stranded or solid core.
- Copper conductors only.
- 5 mm (0.20") rising-cage screw terminal blocks.

### Solid-State Relay Outputs

- Switch 24 VAC/VDC.
- 500 mA maximum.


© 2000-2026 Reliable Controls® Corporation. All rights reserved.


Designed and manufactured in Canada for use in distributed control systems.

## TECHNICAL SPECIFICATIONS

### Warranty

- 5 years.

### Certifications

- BTL listed (B-GEN).
- FCC CFR 47 Part 15/B.
- CE.
- UL-916 Energy Management Equipment.
- WEEE.
- EN60730-1.
- Canada CES-003(B)/NMB-003(B).

### Real-Time Clock (-C Option)

- Real-time clock with 72 hours of powered backup.

### Weight

- 0.18 kg (0.4 lb).

### Ambient Limits

- Operating: 0°C to 50°C (32°F to 122°F).
- Shipping: –25°C to 60°C (–13°F to 140°F).
- Humidity: 10%–90% RH noncondensing.


© 2000-2026 Reliable Controls® Corporation. All rights reserved.


Designed and manufactured in Canada for use in distributed control systems.

# ORDERING

## Models

### SSC2-32

- SMART-Space Controller with two universal inputs, one dedicated temperature sensor, and two jumper-selectable outputs.

### SSC2-44

- SMART-Space Controller with three universal inputs, one dedicated temperature sensor, two jumper-selectable outputs, and two dedicated solid-state relay outputs.

### SSC2-45

- SMART-Space Controller with three universal inputs, one dedicated temperature sensor, one jumper-selectable output, and four dedicated solid-state relay outputs.

## Options

- -C adds real-time clock with powered backup.
- -CO2 adds $CO_2$ sensor.
- -H adds humidity sensor.
- -OC adds occupancy sensor.
- /W for white enclosure.

## Build your order

To create the order number, add your options to the base model. For example, SSC2-32-CO2-H is the order number for a SMART-Space Controller with two universal inputs, one dedicated temperature sensor, two jumper-selectable outputs, and $CO_2$ and humidity sensors.


© 2000-2026 Reliable Controls® Corporation. All rights reserved.

Designed and manufactured in Canada for use in distributed control systems.

## PRODUCT IMAGES

SMART-Space Controller front view

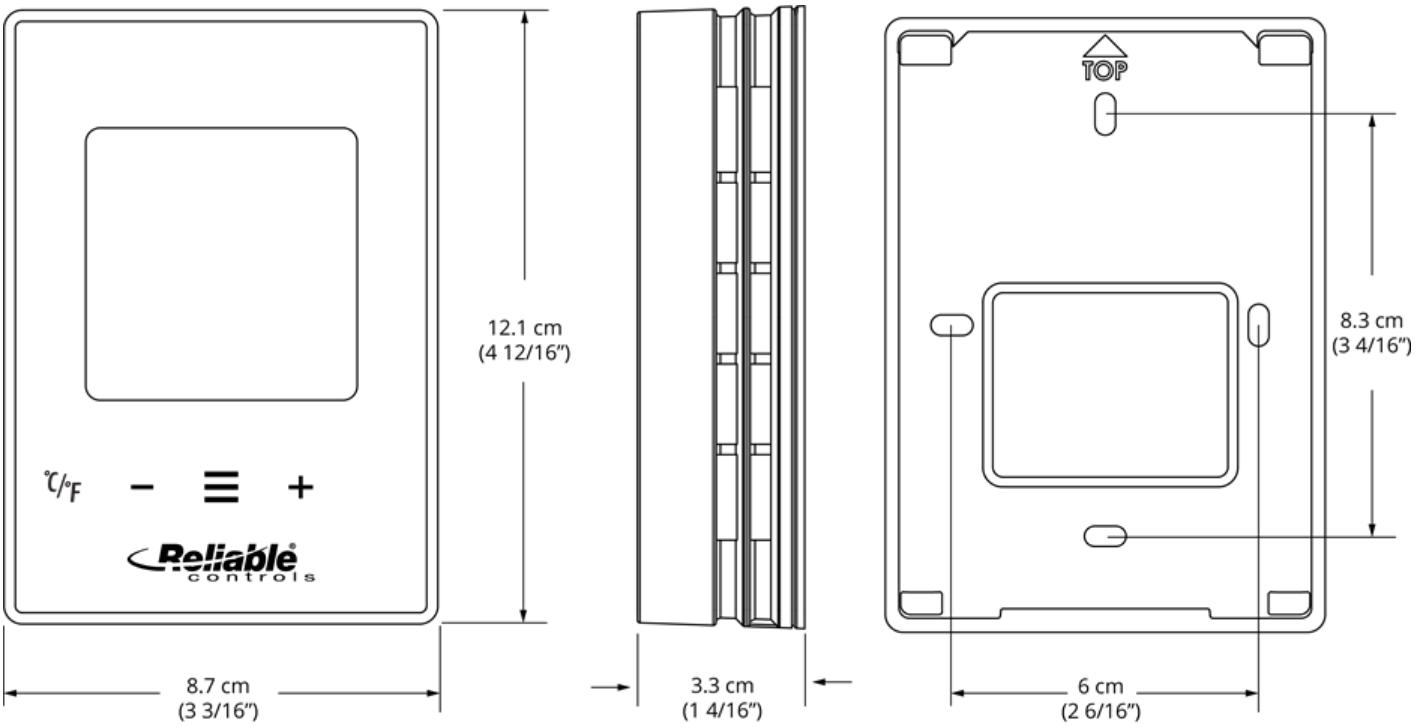
SMART-Space Controller rear view with backplate

SMART-Space Controller side view


© 2000-2026 Reliable Controls® Corporation. All rights reserved.


Designed and manufactured in Canada for use in distributed control systems.

## DIMENSIONS

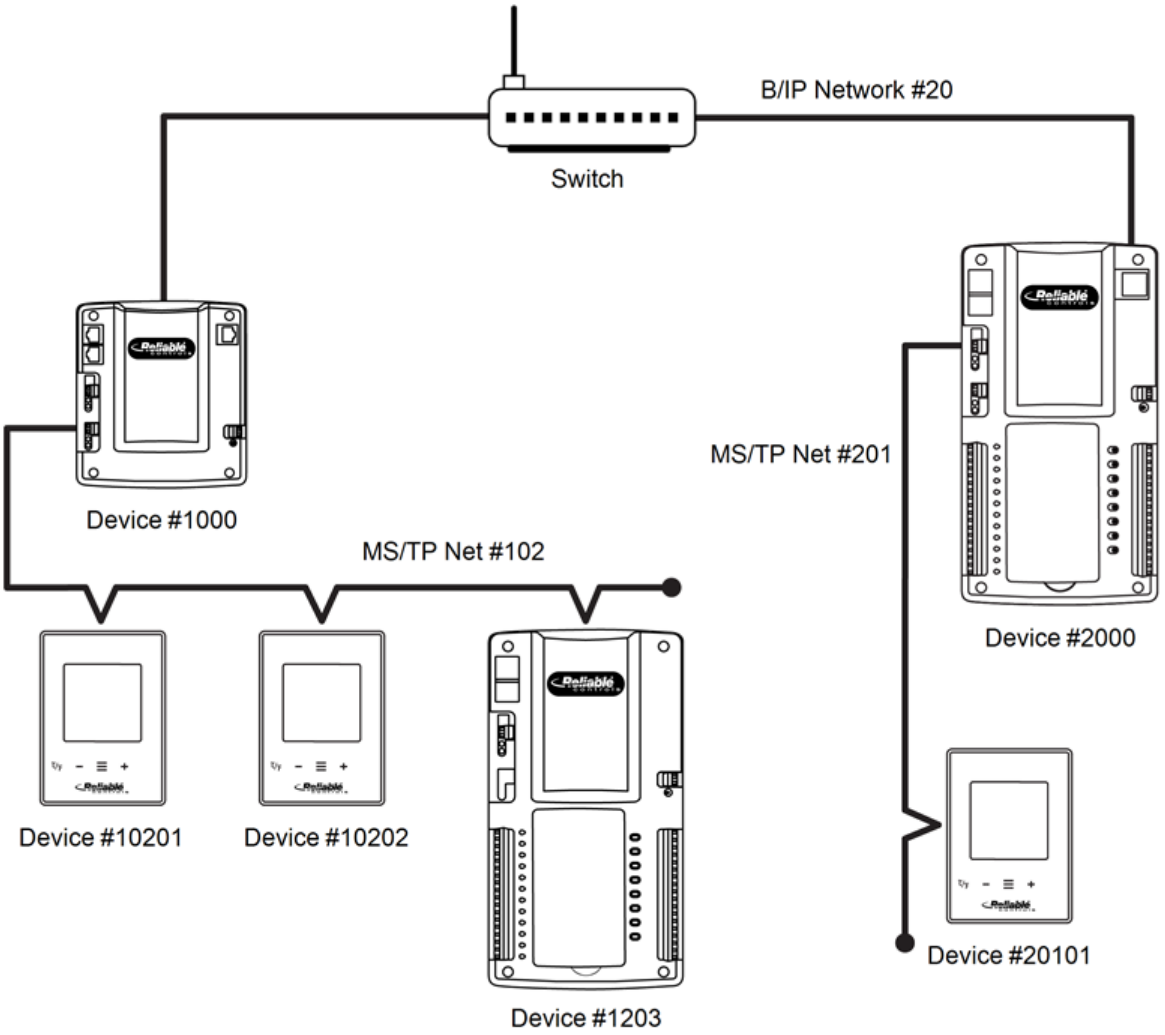




© 2000-2026 Reliable Controls® Corporation. All rights reserved.


Designed and manufactured in Canada for use in distributed control systems.

## Application diagrams

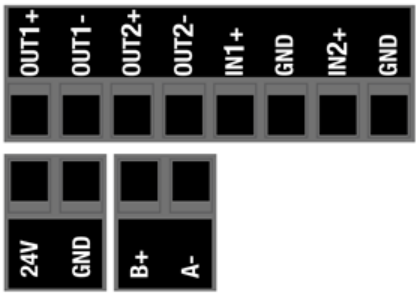
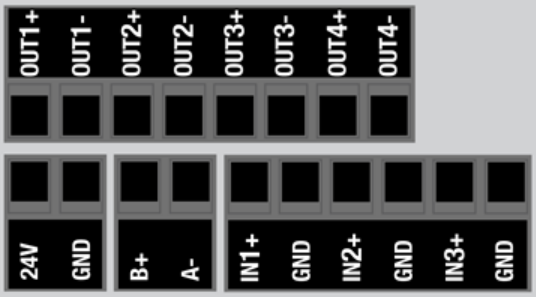
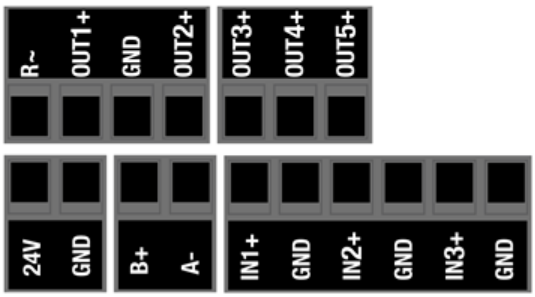



**MS/TP subordinate network diagram**


© 2000-2026 Reliable Controls® Corporation. All rights reserved.

Designed and manufactured in Canada for use in distributed control systems.

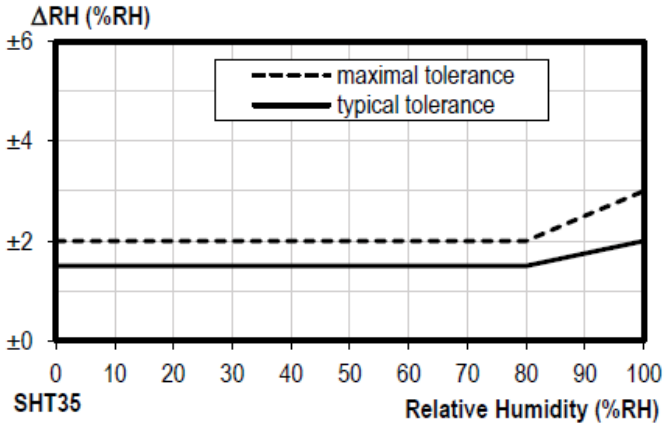
## TERMINAL LAYOUTS

| Model | Connector Orientation |
|---|---|
| SSC2-32 |   |
| SSC2-44 |   |
| SSC2-45 |   |


© 2000-2026 Reliable Controls® Corporation. All rights reserved.

Designed and manufactured in Canada for use in distributed control systems.

## RELATIVE HUMIDITY SENSOR ACCURACY





© 2000-2026 Reliable Controls® Corporation. All rights reserved.

Designed and manufactured in Canada for use in distributed control systems.