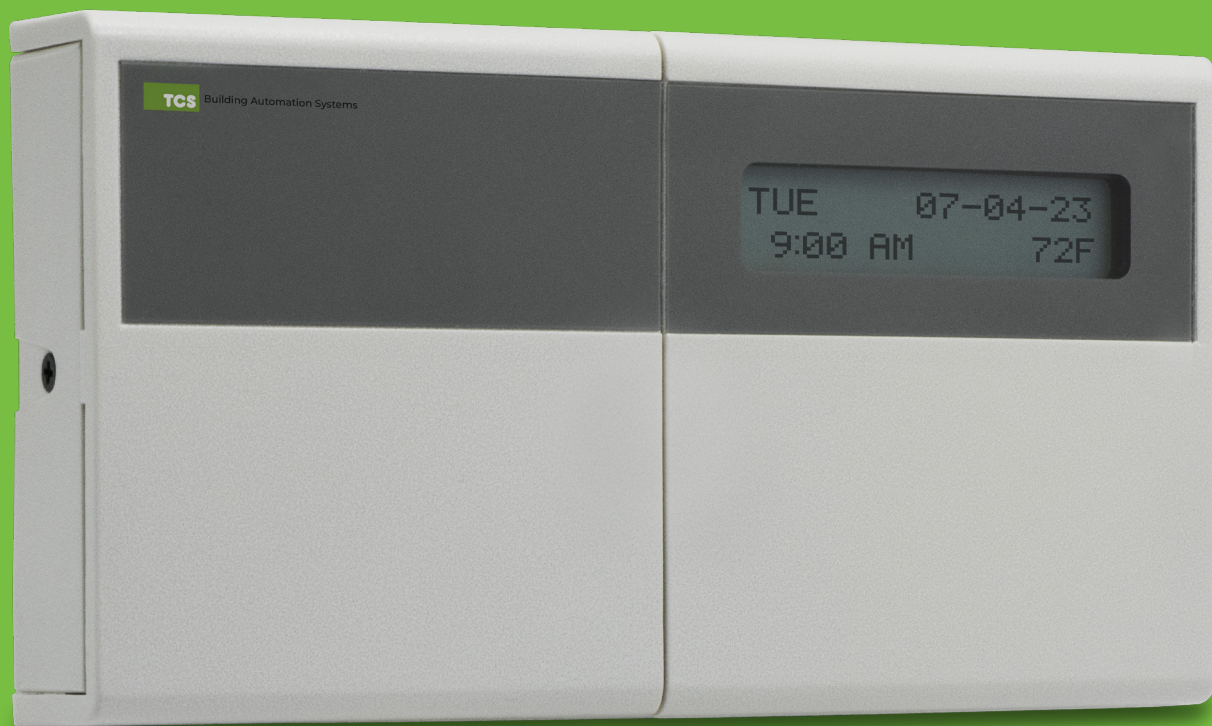# Communicating Thermostats
SuperSTAT Line

Description

The TCS SuperSTAT line of communicating thermostats are powerful, commercial-grade energy management thermostats with an extensive array of features and options. Available in modulating and nonmodulating configurations, the SuperSTATs are low-voltage 24VAC, with multiple options for daily and holiday scheduling, as well as application options for conventional, heat pump, and modulating control.

Each SuperSTAT incorporates non-volatile memory, so that in the event of power loss, all programmed operating parameters are unaffected; no need for battery backup.

The SuperSTAT has a temporary setpoint adjustment, a local override feature, and remote override capability. An adjustable delay on power-up is available, as well as a delay for occupancy transitions. The ability to edit operating control parameters is protected via a user-definable security access code.

SuperSTAT inputs and outputs can be monitored via the web-based Ubiquity Cloud Energy Management System, which is accessible from any web browser. Ubiquity Cloud provides extensive site management and data collection tools, giving users full control of their energy usage while reducing operation costs. See the Ubiquity Cloud section on the TCS website for more information.

Standard Features

- Discharge air sensor input with high and low limits and reset
- Discharge air heating low limit
- Midpoint or endpoint modulation
- Outdoor air sensor input with heating & cooling lockout
- Adjustable delay on power-up and start-up for soft starts
- P+I control option on digital stages
- Smart Recovery
- No backup battery required
- Minimum on/off times for HVAC equipment protection
- 32-character LCD display
- Six status LEDs
- Remote room sensing capability

- User setpoint adjustment limits
- Local and remote override capability
- System and fan switching with access lockouts
- Auxiliary time clock output (economizers)
- Fan interlock safety option
- Filter service input and indication
- Equipment monitoring inputs and indication
- External time clock input
- Energy management input for setpoint shift
- Access to programming or schedule may be locked out or limited with the use of an access code
- Fahrenheit or Celsius temperature display
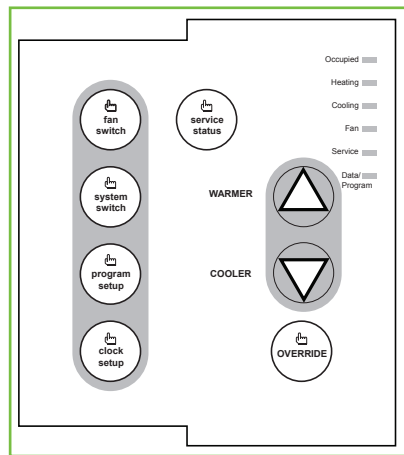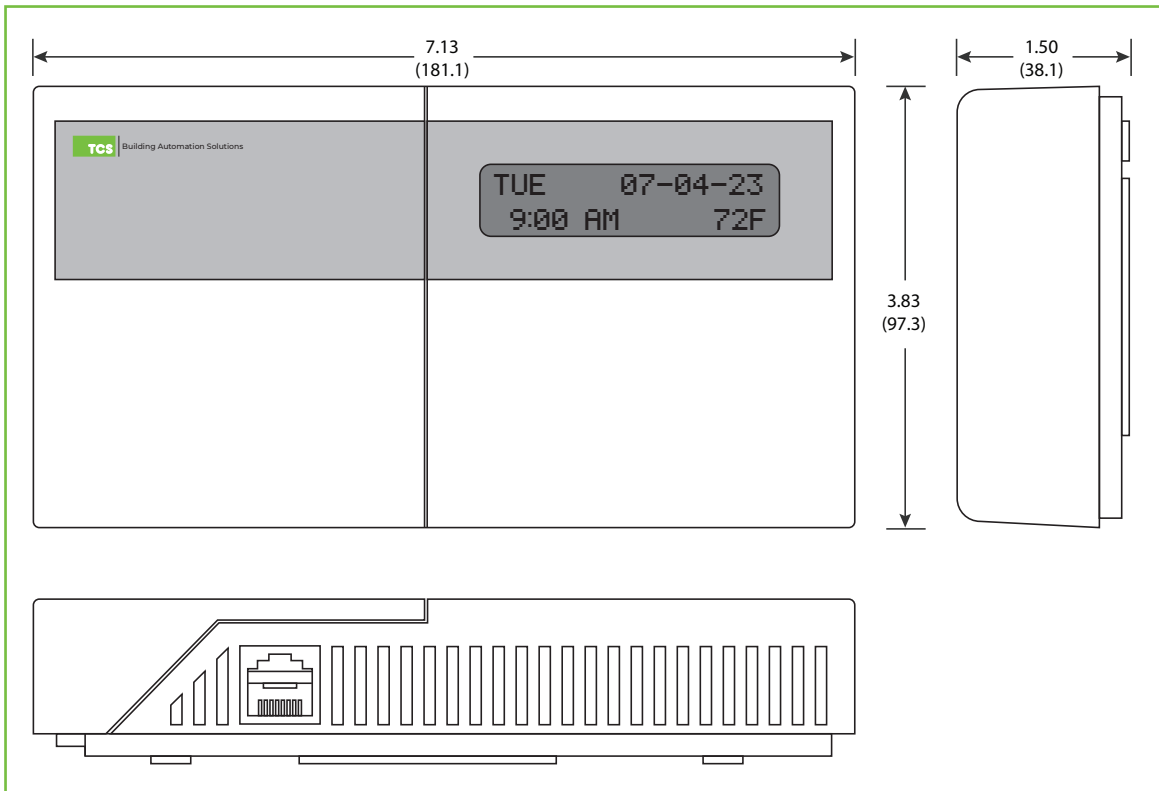
Advanced Applications

- Built-in application programming with simple configuration
- Advanced fan control
  - Recirculation mode to meet minimum fresh air requirements

- Demand response setback
- Door status response setback
- Digital enthalpy economizer enable

TCS Building Automation Systems
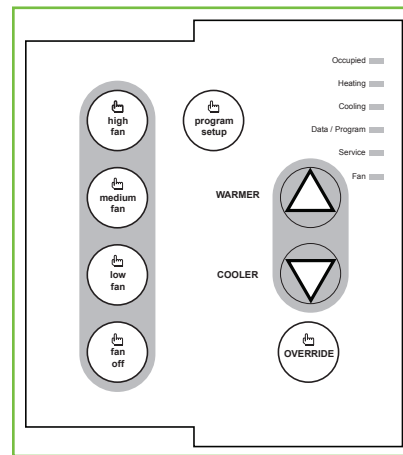
Model-Specific Features and Applications

Model	Heating/Cooling	Programmable Schedule	Stage Outputs	Modulating Valve Outputs	Modulating Economizer	Discharge Air Sensing	Outdoor Air Sensing
SZ1009	Conventional Heat and Cool	Seven-Day	One Heat and One Cool	–	–	✔	✔
SZ1017a	Modulating Heat or Cool	Seven-Day	Two Heat or Two Cool	One	–	✔ (w/Reset)	✔
SZ1018	Modulating Zone Damper and Reheat	Seven-Day	One Heat and One Cool	One	–	✔	✔
SZ1022	Conventional Heat and Cool	Seven-Day	Two Heat and Two Cool plus One Selectable	–	–	✔	–
SZ1024	Heat Pump or Conventional	Seven-Day	Two Compressor and Two Auxiliary Heat	–	–	✔	–
SZ1031	Conventional Heat and Cool	365-Day	Two Heat and Two Cool plus One Selectable	–	–	✔	✔
SZ1033	Heat Pump or Conventional	365-Day	Two Compressor and Two Auxiliary Heat	–	–	✔	✔
SZ1035	Conventional Heat & Cool	365-Day	Two Heat and Two Cool plus Two Selectable Outputs	–	–	✔	✔
SZ1041	Conventional Heat and Cool w/Economizer	365-Day	Two Heat and Two Cool	–	✔	✔	✔
SZ1041a	Make-Up Air w/ Modulating Output	365-Day	Five	–	✔	✔	✔
SZ1051	Modulating Heat or Cool w/Economizer	365-Day	Two Heat or Two Cool	One	✔	✔	✔
SZ1053	Modulating Heat and Cool	365-Day	Two Heat or Two Cool	Two	–	✔ (w/Reset)	✔
SZ1062	Digital Fan Coil	Seven-Day	Three-Speed Fan plus Two Digital Valves	–	–	–	–
SZ1064	Modulating Fan Coil	Seven-Day	Three-Speed Fan plus One Heat or Cool	Two			

TCS Building Automation Systems

Dimensions and Controls

Units in inches (mm)

TUE   07-04-23
9:00 AM   72F

7.13 (181.1)
1.50 (38.1)
3.83 (97.3)

Control Panel

Control Panel: SZ1062, SZ1064

Ordering

Part #	Description
SZ1009	Programmable Seven-Day Thermostat
SZ1017a	Programmable Seven-Day Modulating Thermostat
SZ1018	Modulating Zone Thermostat
SZ1022	Programmable Seven-Day Thermostat
SZ1024	Heat Pump Thermostat
SZ1031	Programmable 365-Day Thermostat
SZ1033	Heat Pump Thermostat

Part #	Description
SZ1035	Programmable 365-Day Thermostat
SZ1041	Programmable 365-Day Modulating Thermostat
SZ1041a	Programmable 365-Day Modulating Thermostat
SZ1051	Programmable 365-Day Modulating Thermostat
SZ1053	Programmable 365-Day Modulating Thermostat
SZ1062	Digital Fan Coil Thermostat
SZ1064	Modulating Fan Coil Thermostat

View our full line at www.tcsbasys.com.

Accessories

TS3000 Temperature Sensor
Indoor Wall Mount

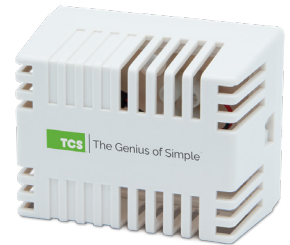**TS3020 Temperature Averaging Kit**
Two-Zone

TS3030 Temperature Averaging Kit
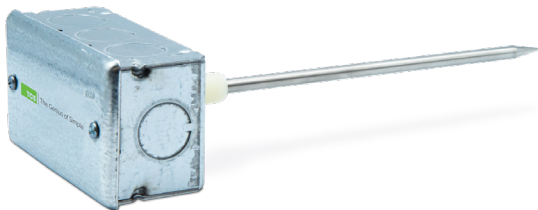*Two-Zone*

TS3003 Temperature Sensor
Outdoor

TS1006 Temperature Averaging Sensor
Duct Mount

TS2000 Temperature Sensor
Indoor Wall Mount

TS1002 Temperature Sensor
Duct Mount

PS2001 Current Switch
Split Core

TS1005 Temperature Sensor
Pipe Mount