



Low Voltage Digital Programmable and Network Based Thermostat

Manufacturer: TCS Basys Controls

Model: SZ-1031

Features: 365 Day Programmable
3 Heat / 2 Cool or 2 Heat / 3 Cool
Auto Changeover

Plus... Smart Recovery Feature
Built-in Networking and Communications
Six Status Indication Lights
Built-in "Soft Starts" Protection
Programmable Access to System

Description

The SZ-1031 thermostat has been specifically designed to offer maximum value for commercial applications calling for programmable thermostats, by incorporating more of the features contractors and building owners want, such as energy savings, ease of installation and use, superior control, and equipment protection.

Standard features include large digital LCD display making viewing and setting the temperature easy and accurate, automatic changeover, permanent memory retention during any type of power outage, temporary temperature override and Smart Recovery. For system safeguard, the thermostat has automatic compressor short cycle protection, which reduces wear and tear of HVAC equipment.

The SZ-1031 thermostat is compatible with all standard 24 VAC heating and cooling systems and is mercury-free, not only making it environmentally safe, but eliminates the need for leveling. The SZ-1009 also incorporates additional outputs for the control of dampers or economizers, making it completely flexible for commercial applications.

Other features includes Smart Recovery feature that reduces wear and tear on equipment by anticipating heating or cooling requirements and gradually increases or decreases the zone temperature. Built-in networking and communications, which provides easy "point-&-click" programming. Six status indication lights provide status at-a-glance: fan light blinks if failure occurs; service light indicates if any condition needs attention; and program/data LED indicates when the thermostat is in programming mode. Built-in HVAC equipment protection with "soft starts" that offer adjustable delays on power-up, thereby eliminating excess demand for power. Programmable access to system and fan switching allows full access to these functions, completely locks out access, or provides password-controlled access to these functions.

Specifications

Rated Voltage: 24 VAC, +/-20%

Power Consumption: 8 VA max

Inputs: Built-in and remote platinum RTDs, momentary override and three digital (dry contact)

Range:
Room Temp: 40 to 90°F (built-in or remote)
Discharge Air Temp: 0 to 150°F (remote)

Outputs: 3 Digital (SPST dry contact 24 VAC @ 2 Amp)

Accuracy: +/- 0.5%

Display Resolution: +/- 1°F

Display: 32-Character LCD

Programming: Front panel keypad or EIA RS485 interface

Communication: RS485, half duplex

Memory Backup: Non-volatile EEPROM

Override: Programmable from 0 to 255 minutes

Operating
Temperature: 32° to 131°F (0° to 55°C)

Model Selection

Model Number	Description	List Price
SZ-1031	3 Heat / 2 Cool (or 2 Heat / 3 Cool) 365 Day programmable thermostat w/ auto changeover plus 6 unique features	\$967.00 ea.

Accessories Selection

Model Number	Description	List Price
TS3000	Remote Room Sensor	\$132.00 ea
TS1002	Remote Duct Sensor	\$72.00 ea.
TS1003	Remote Outdoor Sensor	\$84.00 ea.

Features / Benefits / Applications

- Standalone or network operation
- 365-day time clock with 2 holiday schedules with automatic leap year and daylight savings correction
- Discharge air sensor input with high and low limits
- Outdoor air sensor input with heating and cooling lockouts
- P + I control option
- Smart recovery
- Six status LEDs
- Remote room sensing capabilities
- User setpoint adjustment limits
- Local and remote override capabilities
- System and fan switching with access lockouts
- Auxiliary time clock output
- Fan interlock safety option
- Filter service input and indication
- External time clock input
- Energy management input for setpoint shift
- Environmentally friendly- mercury-free, does not require batteries
- Selectable Celsius or Fahrenheit temperature display
- No Sub-base

Specifying Information

The EM Warehouse has many years of experience in spec writing, design-build and interpretation of written specifications. If we can assist you in this area just E-mail your requirements to emw@ecs-controls.com.

Ordering Information

Please contact an EM Warehouse (EMW) representative for the following:

- Wholesale Discount Multiplier - Issued to resellers, contractors and holders of an EIN.
- Retail Discount Multiplier - Issued to individuals and non-holders of an EIN.
- Quantity discounts - Let us help you save money when you need large quantities.
- Application for a line of credit - Submit an application, free of charge, for an open account.
- Product assistance - Receive help in selecting the right product for your needs and applications.
- Order placement - Place your order and receive confirmation on delivery.
- Request manufacturer data sheets - A detailed description of the product information and schematics.
- Request addition information - We are here to assist you in finding answers and alternatives.

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We look forward to servicing both you and your control needs now and in the future.

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