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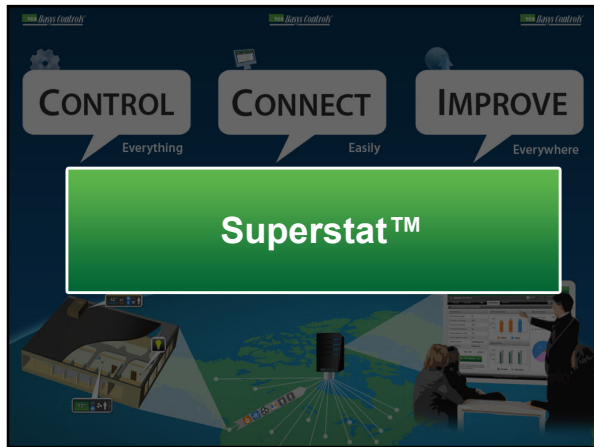
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**Tour of Demo Panel Superstat™**

- **Separate Cover & Base**
- **Ribbon Cable Connection**
- **RS485 Jack**
- **Buttons**
  - Fan & System Switch
  - Program & Clock Setup
  - Service Status, Override
  - Warmer/Cooler

Will be discussed in detail in the Programming Section

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### Tour of Demo Panel Superstat™ -- continued

#### Remote Sensors

- Using built-in room sensor only. (This is the default setting.) 
- Using built-in room sensor with discharge air sensor only. 
- Using built-in room sensor with outdoor air sensor only.\* 
- Using built-in room sensor with both discharge and outdoor air sensors.\* 
- Using remote room sensor only. 
- Using remote room sensor with discharge air sensor only. 
- Using remote room sensor with outdoor air sensor only.\* 
- Using remote room sensor with both discharge and outdoor air sensors.\* 

\* (S21009, S21031 and S21035 only)

#### Keypad Access

- Keypad access to both programming and clock setup. (This is the default setting.) 
- No keypad access to programming or clock setup. 
- Keypad access to programming only. 
- Keypad access to clock setup only. 

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### Tour of Demo Panel Superstat™ -- continued

- **Adjustment Pots** ..... *catalog pg 190\**
  - T1 Pot            *Room Temp*            40 to 90°F
  - T2 Pot            *Discharge Air Temp*    0 to 150°F
  - T3 Pot            *Outdoor Air Temp*      –40 to 160°F
  - Unlabeled Pot    *LCD Contrast*

*\* description only – no diagram shown in catalog*

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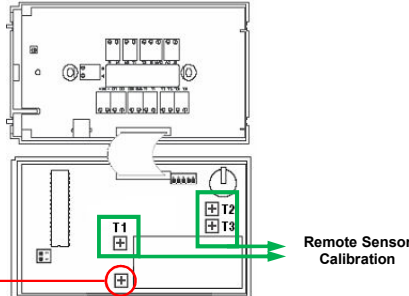
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### Tour of Demo Panel Superstat™ -- continued



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**Superstat™ Standard Features**

- Stand-Alone or Network Operation
- Built-In Network Capability
- 32-Character LCD Display
- Fahrenheit or Celsius Temp. Display
- Six LED Status Lights
- Adjustable Delay on Power-Up
- No Battery Backup Required

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**Superstat™ Standard Features -- continued**

- Smart Recovery
- Fan Interlock Safety Option
- Built-In HVAC Equipment Protection
- P+I Control Option
- User Setpoint Adjustment Limits
- Limit (*access code*) or Lockout Access to Programming & Scheduling

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**Superstat™ Standard Features -- continued**

- System & Fan Switches with Lockouts
- Local & Remote Occupancy Override
- 3 DI's for Monitoring Equipment, Filter Status, External Time Clock, etc.
- Remote Sensor Inputs for Remote Room, Discharge Air, & Outdoor Air \*
- Auxiliary Time Clock Output \*

*\*available on most models*

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### Where to Get Help or Answers

- Instructions Sent with Product
- [TCS Basys Product Overview](#)
- Training & Reference Manual
- TCS Basys Controls Catalog
- [www.tcsbasys.com](http://www.tcsbasys.com)
  
- Call TCS Directly – 800-288-9383

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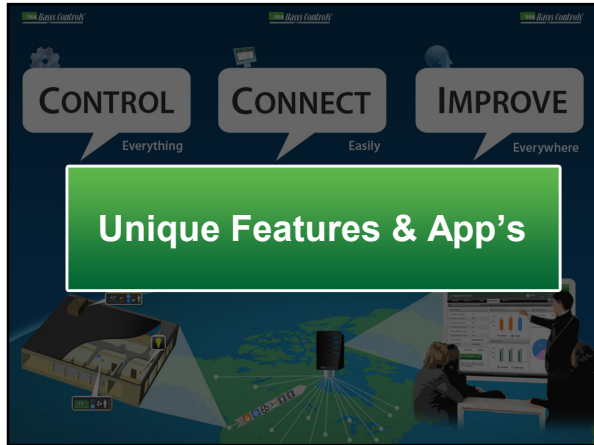
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### Conventional Heat & Cool Thermostat Line

- 7-Day or 365-Day Internal Time Clock
- Auxiliary Time Clock Output *(some models)*
- Maximum 6 Total Stages
  - Up to 4 Stages Heat
  - Up to 4 Stages DX Cooling

→ [Jump to Heat Pump Line](#)



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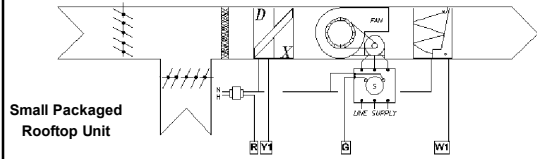
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**SZ1009 – Conventional Heat & Cool**

- 7-Day Clock
- 1 Stage Heat
- 1 Stage DX Cooling



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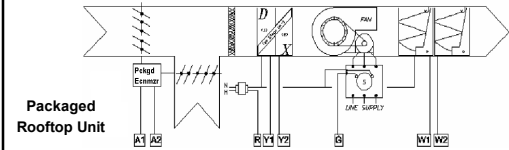
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**SZ1022 – Conventional Heat & Cool**

- 7-Day Clock with auxiliary time clock output
- 2 Stages Heat
- 2 Stages DX Cooling
- 1 Selectable Stage



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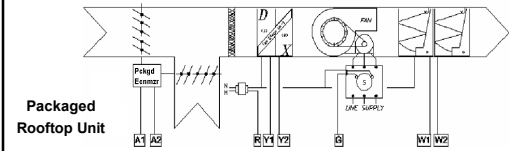
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**SZ1031 - Conventional Heat & Cool**

- 365-Day Clock with auxiliary time clock output
- 2 Stages Heat
- 2 Stages DX Cooling
- 1 Selectable Stage



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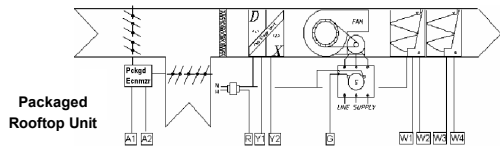
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**SZ1035 - Conventional Heat & Cool**

- 365-Day Clock with auxiliary time clock output
- 2 Stages Heat
- 2 Stages DX Cooling
- 2 Selectable Stages



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**Heat Pump Thermostat Line**

- 7-Day or 365-Day Internal Time Clock
- Auxiliary Time Clock Output (*all models*)
- Up to 2 Compressors
- Up to 2 Stages Auxiliary Heat
- Reversing Valve Output

[→ Jump to Modulating Line](#)



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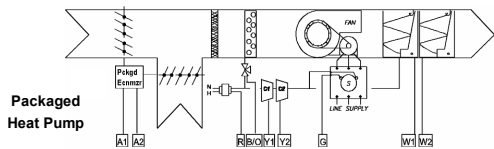
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**SZ1024 - Heat Pump**

- 7-Day Clock with auxiliary time clock output
- 2 Compressors
- 2 Stages Auxiliary Heat
- Reversing Valve Output



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**SZ1033 - Heat Pump**

- 365-Day Clock with auxiliary time clock output
- 2 Compressors
- 2 Stages Auxiliary Heat
- Reversing Valve Output

**Conventional Mode Available**

Packaged Heat Pump

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**Modulating Thermostat Line**

- 7-Day or 365-Day Internal Time Clock
- Auxiliary Time Clock Output (*some models*)
- Various Heating and/or Cooling Stages
- Various Modulating Outputs (*valves, damper and/or economizer depending on model*)

→ [Jump to Fan Coil Line](#)

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**SZ1017a – Modulating Heat or Cool**

- 7-Day Clock with auxiliary time clock output
- 2 Selectable Heat and/or Cool Stages
- 1 Modulating Valve Output

DX Cooling with Hot Water Heating

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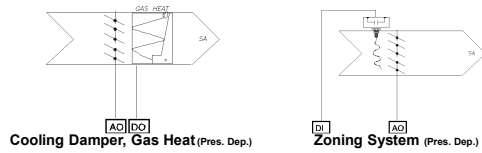
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### SZ1018 – Zone Thermostat

- 7-Day Clock with auxiliary time clock output
- 2 Selectable Heat and/or Cool Stages
- 1 Modulating Valve Output
- 1 Modulating Damper Output



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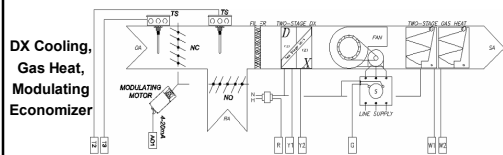
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### SZ1041 – Cnv. Heat/Cool w/Economizer

- 365-Day Clock
- 2 Stages Heat
- 2 Stages DX Cooling
- 1 Modulating Economizer Output



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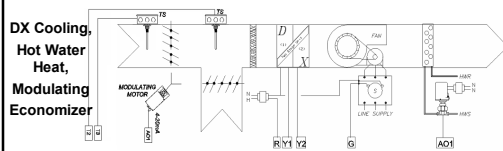
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### SZ1051 – Mod. Heat-Cool w/ Economizer

- 365-Day Clock with auxiliary time clock output
- 2 Selectable Heat and/or Cool Stages
- 1 Modulating Valve Output
- 1 Modulating Economizer Output



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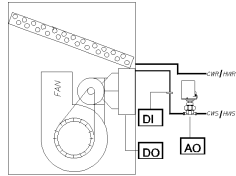
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### SZ1063/64 – Modulating Fan Coil

- Non-Programmable (SZ1063)
- 7-Day Clock (SZ1064)
- Pipe Temp Sensor (SZ1064)
- 3 Speed Fan
- Mod. Heating Output
- Mod. Cooling Output



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### ZigBee™ Wireless Line

- 7-Day or 365-Day Internal Time Clock
- Various Heating and/or Cooling Stages
- Various Modulating Outputs
- Self-Healing, “Plug/Play“ Mesh Network
- 150 to 500 ft Typical in Building Range
- 100mW Output at 2.4 GHz
- IEEE 802.15.4 Compliant

→ [Jump to App. Resources](#)



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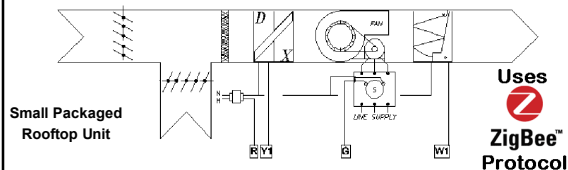
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### SZW123 – Conventional Heat & Cool

- 7-Day Clock
- 1 Stages Heat
- 1 Stages DX Cooling
- Heat Pump Mode Option



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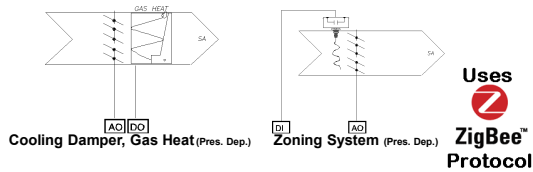
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**SZW118 – Modulating Zone Thermostat**

- 7-Day Clock with auxiliary time clock output
- 2 Selectable Heat and/or Cool Stages
- 1 Modulating Valve Output
- 1 Modulating Damper Output



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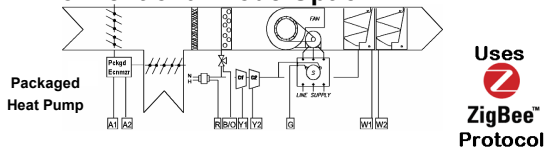
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**SZW133 – Heat Pump/Conventional**

- 365-Day Clock with auxiliary time clock output
- 2 Compressors
- 2 Stages Auxiliary Heat
- Reversing Valve Output
- Conventional Mode Option



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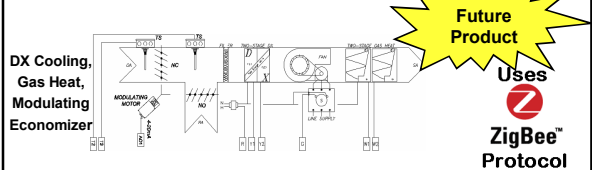
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**SZW153 – Mod. Heat-Cool w/ Economizer**

- 365-Day Clock with auxiliary time clock output
- 2 Selectable Heat and/or Cool Stages
- 2 Modulating Outputs (Valves or Economizer)
- 1 Modulating Damper Output



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### SZW244 – Unit Board

- Transmits HVAC Unit Status to QD/QWL
- Mounts on Inside of HVAC Unit or Outside of Refrigeration Unit
- 2 Analog (Voltage or Current) Inputs
- 2 Current Transducer Inputs
- 3 RTD Temperature Inputs



Uses  
ZigBee  
Protocol

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### Application Resources...

- TCS Basys Controls Catalog Applications Section
- Training & Reference Manual Input/Output Summary & Selection Guide
- [www.tcsbasys.com](http://www.tcsbasys.com)
- Call TCS Directly – 800-288-9383

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### Superstat™ Application Exercise

**Using all available resources determine a solution for application #1 –**

*One, single zone packaged rooftop unit with three stages of DX cooling and two stages of gas fired heat. Monitoring points include discharge air temp and outside air temp with heating and cooling lockouts.*

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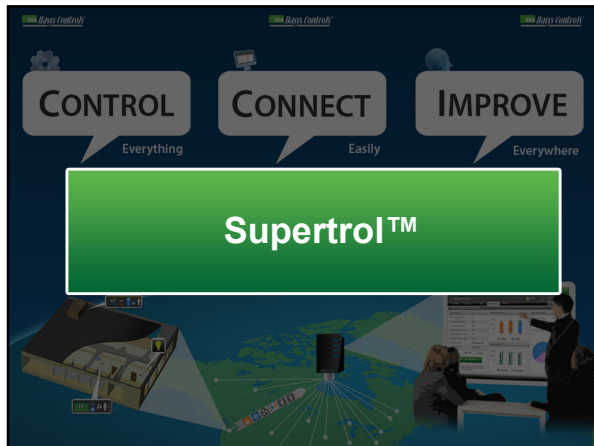
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**Tour of Supertrols™**

- **Single, “Black Box” Unit**
- **RS485 Jack**
- **Some Have Display & Keypad**
  - Scroll
  - Next
  - Increment/Decrement
  - View (SL1001a only)
  - Override

**Will be discussed in detail in the Programming Section**

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**Tour of Supertrols™ -- continued**

- **Removable Terminal Blocks**
  - Terminations Vary by Model
  - 24 VAC or R, Gnd or C      **Power Terminations**
  - A, B, REF                      **Communications Jack**

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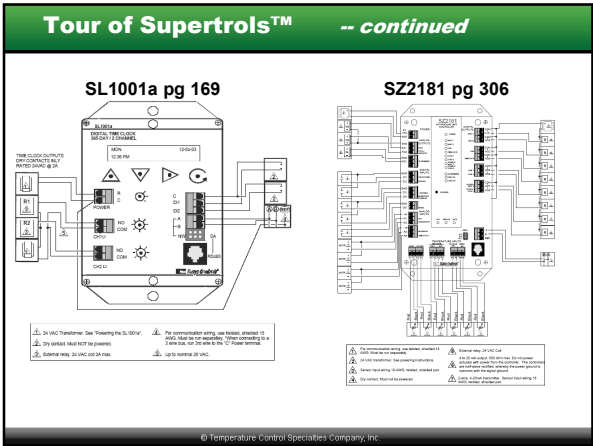
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**Tour of Supertrols™ -- continued**

- **Jumpers**
  - Vary by Model
  - 4.8K, 9.6K, 19.2K **Baud Rate Selection**
  - Network (NW), Standalone (SA) **Prog. Access**
  - RTN1, RTN2 **Loop Powered AI's**

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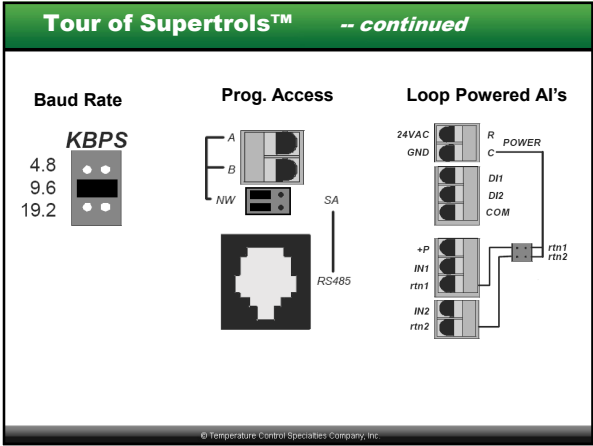
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**Supertrol™ Standard Features**

- **Stand-Alone or Network Operation**
- **Built-In Network Capability**
- **Fahrenheit or Celsius Temp. Operation**
- **Various LED Status Lights**
- **Adjustable Delay on Power-Up**
- **No Battery Backup Required**

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**CONTROL** Everything    **CONNECT** Easily    **IMPROVE** Everywhere

**Unique Features & App's**

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**SE1000 - Utility Meter Pulse Reader**

- **Stand-Alone or Network Operation**
- **Independently Programmable Inputs**
- **32 Character LCD Display**
- **Four Pulse Inputs for:**
  - Electric (Single Phase)
  - Electric (Three Phase)
  - Gas
  - Water
  - BTU

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### SL1001a - 2 Channel Time Clock

- Independent, 365-Day Scheduling for both Channels
- Accepts Occupancy Sensor or Photocell Inputs
- 2 Relay Outputs
- Local & Remote Override Capability for Each Output



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### SL1001a Applications

- Indoor or Security Lighting
- Outdoor or Landscape Lights
- Parking Lot Lights and Signage
- HVAC Systems (*radiant floor heating, perimeter heating, unit ventilators, etc.*)
- Water Heaters or Boilers
- Exhaust or Intake Fans
- Irrigation Systems

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### SL2105 - Five Channel Lighting Module

- Independent, 365-Day Scheduling for all 5 Channels
- Digital & Analog Light Sensor Inputs
- Analog Current or kW Input
- 5 Relay Outputs
- 2 "Demand Limit" Outputs
- Astronomical Clock



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**SL2105 Applications**

- Indoor or Security Lighting
- Outdoor or Landscape Lights
- Parking Lot Lights and Signage
- Daylight Harvesting
- Lighting Load Shedding
- Power Monitoring

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**SL2108 - Eight Channel Lighting Module**

- Independent, 365-Day Scheduling for all 8 Channels
- Digital & Analog Light Sensor Inputs
- Analog Current or kW Input
- 8 Relay Outputs
- 2 "Demand Limit" Outputs
- Astronomical Clock



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**SL2108 Applications**

- Indoor or Security Lighting
- Outdoor or Landscape Lights
- Parking Lot Lights and Signage
- Daylight Harvesting
- Lighting Load Shedding
- Power Monitoring

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## SZ1025b – VAV Box Controller

- **4 Relay Outputs** (*heat, cool, fan, or time clock*)
- **Built-In Velocity Pressure Sensor**
- **Pressure Dependent or Pressure Independent Operation**
- **1 mod. Damper**
- **1 mod. Valve**
- **Time Clock Input**



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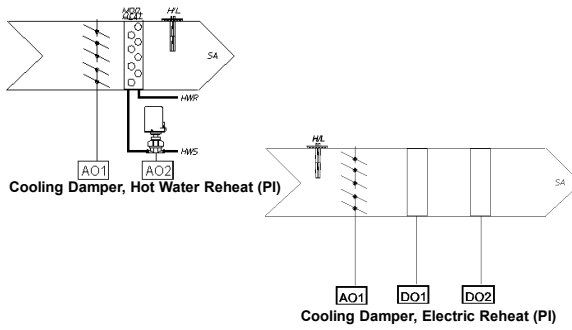
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## SZ1025b Applications



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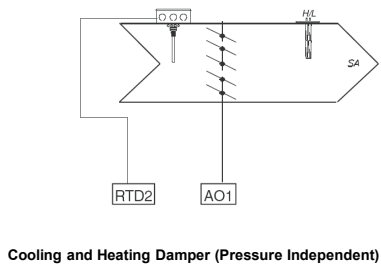
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## Another SZ1025b Application



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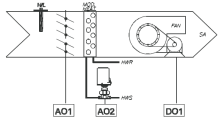
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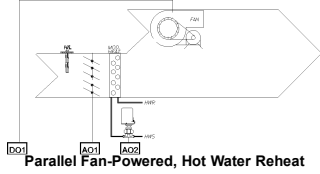
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### Additional SZ1025b Applications



Series Fan-Powered, Hot Water Reheat



Parallel Fan-Powered, Hot Water Reheat

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### SZ1143b – General Purpose Controller

- Humidity, Pressure, CO<sub>2</sub>, Dew Point, High/Low Signal Select
- Adjustable PID control on Mod. Output
- 2 Analog Inputs (4 to 20mA)
- 2 Digital Inputs
- 1 Modulating Output
- 2 Relay Outputs
- Time Clock Input



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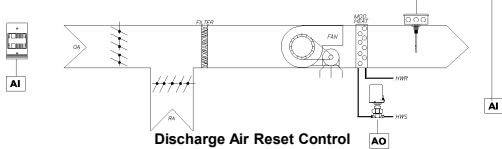
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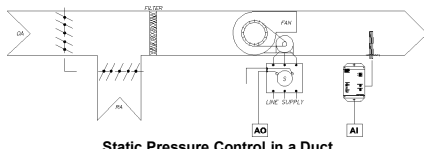
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### SZ1143b Applications



Discharge Air Reset Control



Static Pressure Control in a Duct

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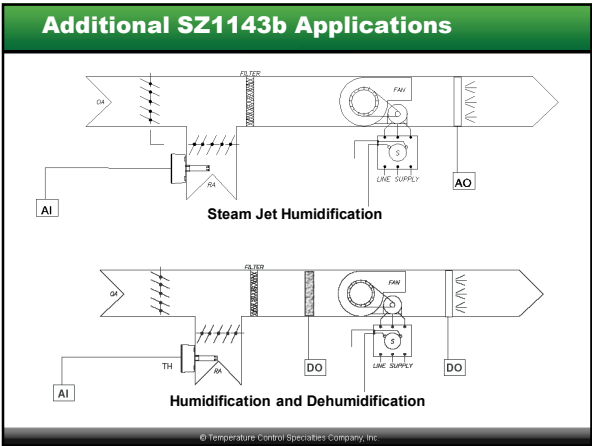
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### SZ1144 - Refrigeration Temp. Monitor

- 4 RTD Inputs (-40 to 60°F)
- 2 Analog Inputs (4 to 20mA)
- 2 Digital Inputs
- 1 Relay Output (local alarm)

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### SZ1145 - General Purpose Temp Monitor

- 4 RTD Inputs (20 to 120°F)
- 2 Analog Inputs (4 to 20mA)
- 2 Digital Inputs
- 1 Relay Output (local alarm)

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### SZ2141 - Refrigeration Controller

- **6 RTD Inputs** (-40 to 160°F)
- **5 Analog Inputs** (4 to 20mA)
- **6 Digital Inputs**
- **9 Relay Control Outputs**
  - 1 Cooler with Defrost
  - 2 Freezers with Defrost and Fan
  - Local Alarm



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### SZ2144 - Large Refrigeration Monitor

- **3 RTD** (-40 to 160°F) or **Thermistor** (-20 to 120°F) **Inputs**
- **3 RTD Inputs** (20 to 220°F)
- **2 Analog Inputs** (4 to 20mA)
- **3 Analog Inputs** (0 to 5V)
- **8 Digital Inputs**
- **1 Relay Output** (local alarm)



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### SZ2161 - Heat Pump Water Loop Controller

- **Control 4 Boilers & a Cooling Tower**
- **Automatic Rotation of Boilers & Pumps**
- **365-Day Scheduling**
- **6 RTD Inputs**
- **5 Digital Inputs**
- **2 Analog Outputs** (4 to 20mA)
- **12 Relay Outputs**
  - 4 Boilers, 4 Chillers,
  - 2 Loop & 2 Boiler Pumps



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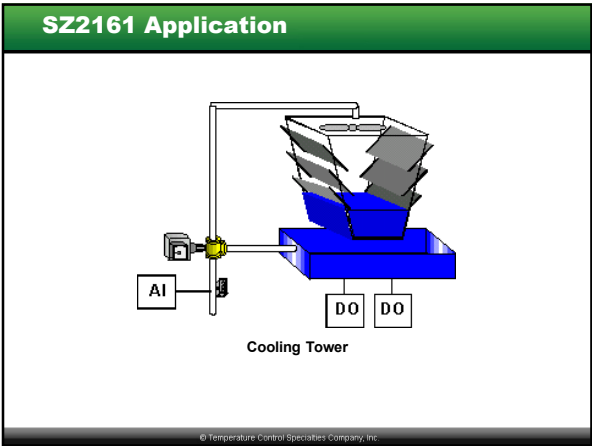
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**SZ2165 - Boiler Controller**

- Control 4 Boilers with Chiller Support
- Automatic Rotation of Boilers & Pumps
- 365-Day Scheduling
- 6 RTD & 5 Digital Inputs
- 1 Analog Input (4 to 20mA)
- 2 Analog Outputs (4 to 20mA)
- 9 Relay Outputs

4 Boilers, 2 Boiler Pumps,  
2 Chillers, 1 Alarm

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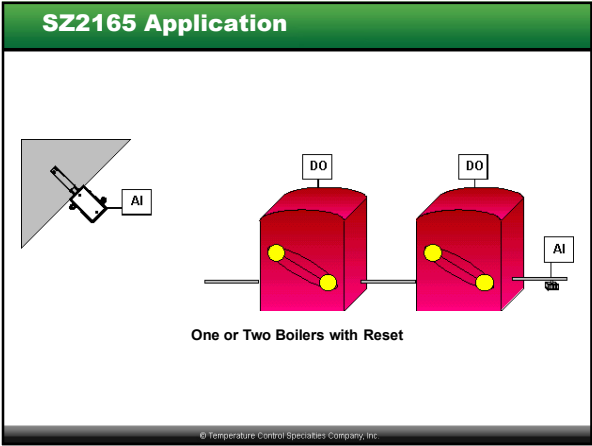
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### SZ2166 - Chiller Controller

- Stage 6 Chillers with Boiler Support
- Automatic Rotation of Chillers & Pumps
- 365-Day Scheduling
- 6 RTD Inputs
- 5 Digital Inputs
- 2 Analog Outputs (4 to 20mA)
- 9 Relay Outputs

6 Chillers, 2 Boilers, 1 Alarm



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### SZ2181 - Air Handling Unit Controller

- Enthalpy Based Economizer Option
- 365-Day Scheduling
- 6 RTD & 5 Digital Inputs
- 4 Analog Inputs (4 to 20mA)
- 3 Analog Outputs (4 to 20mA)
- 8 Relay Outputs

2 Heat, 2 Cool, 2 Selectable Stages  
1 Fan, 1 Timeclock



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### SZ2182 - Advanced AHU Controller

- Enthalpy Based Economizer Option
- 365-Day Scheduling
- 6 RTD & 5 Digital Inputs
- 4 Analog Inputs (4 to 20mA)
- 4 Analog Outputs (4 to 20mA)
- 8 Relay Outputs

2 Heat, 2 Cool, 2 Selectable Stages  
1 Fan, 1 Timeclock



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### SZ2182 Specific Applications

- Dehumidification
- Face & Bypass Damper Control
- Static Pressure Control
- Heat Pump with Economizer Control

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### Application Resources...

- TCS Basys Controls Catalog Applications Section
- Training & Reference Manual Input/Output Summary & Selection Guide
- [www.tcsbasys.com](http://www.tcsbasys.com)
- Call TCS Directly – 800-288-9383

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### Supertrol™ Application Exercise

**Using all available resources determine a solution for application #2 –**

*10 packaged water source heat pumps. Each unit has 2 compressors and 1 stage auxiliary heat. Units have reversing valves that needs to be controlled. Monitoring points include discharge air temp. Heat pump water loop is made up of 2 boilers with outdoor air reset and a cooling tower.*

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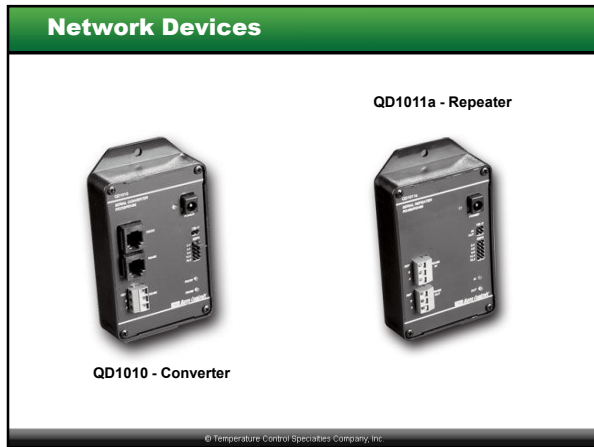
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## Site Communication Centers

QD2040 - REG



QD2040 - Max



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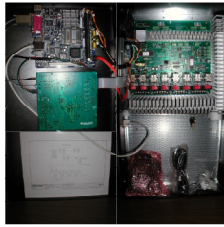
## Integrated Building Manager Panels



Outside Front



Inside Front & Back



QWL Series

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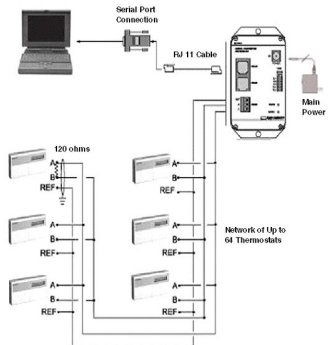
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## On-Site Communications



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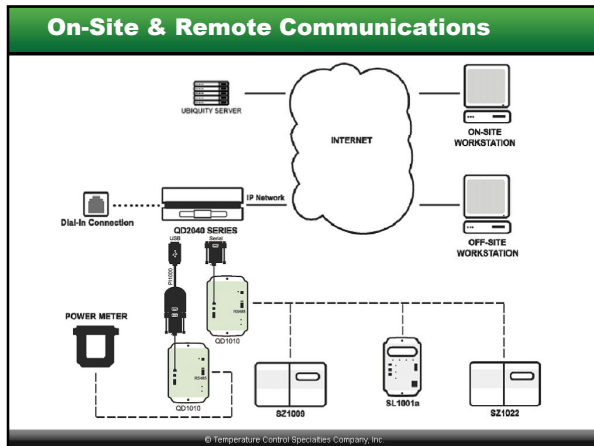
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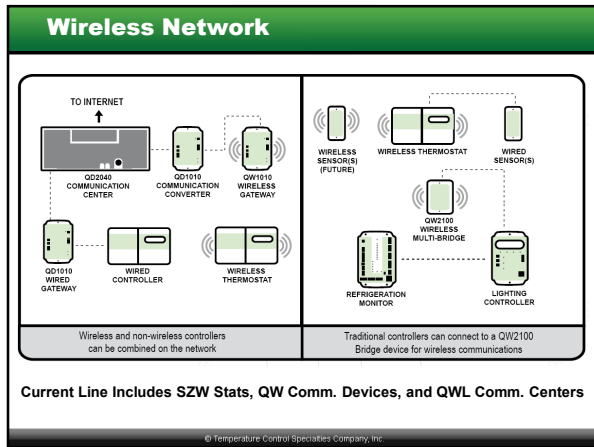
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- ### Application Resources...
- **TCS Basys Controls Catalog**  
**Applications Section**
  - **Training & Reference Manual**  
**Input/Output Summary & Selection Guide**
  - [www.tcsbasys.com](http://www.tcsbasys.com)
  
  - **Call TCS Directly – 800-288-9383**
- © Temperature Control Specialist's Company, Inc.

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### Networked System Application Exercise

**Using all available resources determine a solution for application #3 –**

*Cooling Only Air Handling Unit with 2 stages of DX cooling and modulating economizer. Unit maintains 55 °F discharge air temp. Duct static pressure control is required. There are also 7 pressure independent VAV boxes with hot water reheat. A boiler with outdoor air reset is used for reheat. (networked system)*

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### Networked System Benefits

**With a networked system we gain –**

- share the outdoor air sensor
- zoning functions
- morning warm up
- remote access & troubleshooting
- programming, scheduling, alarming
- graph/download trends
- maintenance alerts by runtime & warranty period

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### Networked System Application Exercise

**Using all available resources determine a solution for application #4 –**

*Single zone air handling unit with modulating hot water heat, 3 stages of DX cooling + modulating economizer. System also requires demand control ventilation with CO<sub>2</sub> control. Monitoring points include discharge air temp and outside air temp. A boiler with outdoor air reset supplies hot water loop. (networked system)*

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## Networked System Benefits

### ***With a networked system we gain –***

- share the outdoor air sensor
- remote access & troubleshooting
- programming, scheduling, alarming
- graph/download trends
- maintenance alerts by runtime & warranty period

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