

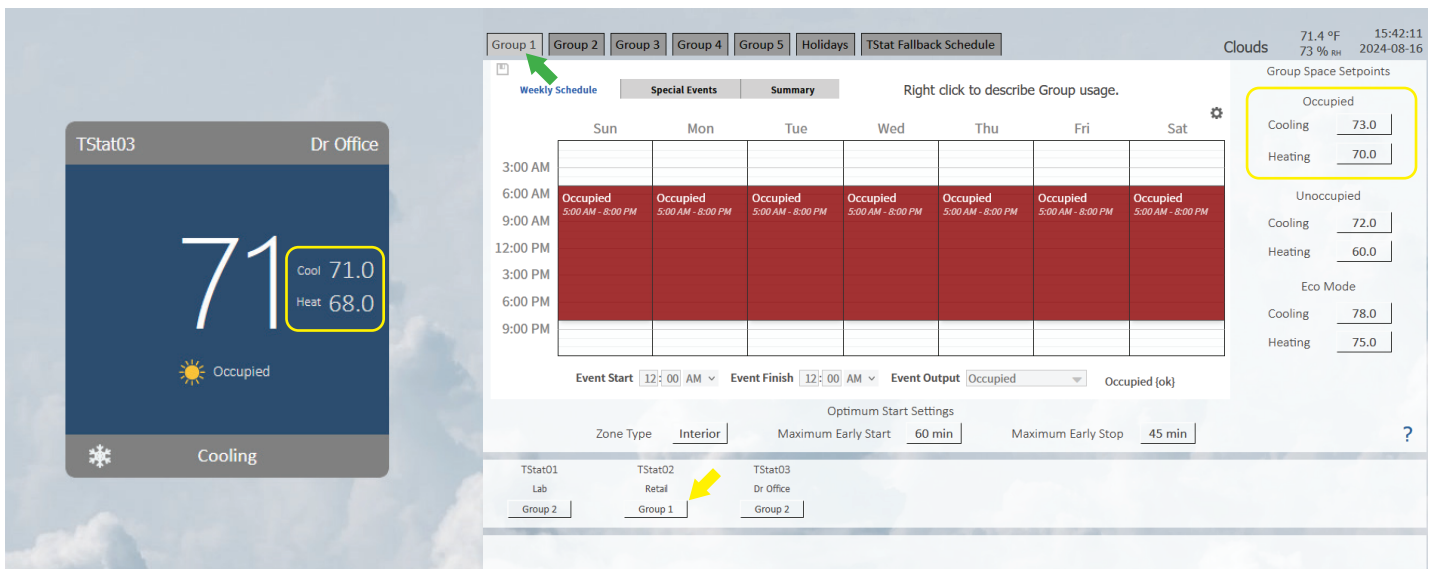


Eyemart Express has partnered with ProStar Energy Solutions in an energy Management Program to reduce energy usage and costs. The installation of your new ProStar Energy Solutions CATALYST Building Management System is now complete. This solution offers the versatility to use a digital thermostat (sensor) to allow setpoint adjustments in tandem with the written setpoints from the eIQ platform, for ease in optimizing space comfort.

HOW IT WORKS

Primary setpoints are first set within the web interface for the ProStar Energy Solutions CATALYST BMS. After the primary base setpoints have been established in the eIQ Platform (web interface) the digital sensor can be used to make setpoint adjustments (for ease). The current active setpoints for each respective heating and air conditioning system will be displayed on the eIQ Platform as shown in the yellow highlighted box below.

These setpoints are assigned from the **Group setpoint page** of the eIQ Platform. Each heating and air conditioning unit must be assigned a “**Group**” (yellow arrow). Inside of each **Group** will be an occupancy schedule as well as an occupied and unoccupied heating and cooling setpoints.



MAKING ADJUSTMENTS WITH THE THERMOSTAT

Adjustments can be made by changing the base setpoints on the eIQ Platform from the group above or via override. Override can be performed from the platform home tile or from the BAPI digital thermostat sensor via a setting selector switch in the eIQ platform. This can be found in the “**Settings Menu**” under the “**Space**” submenu.

Status Faults Testing Notes Groups **Settings**

Space Unit Faults Enhanced Ventilation

Setpoints are managed in the "Groups" tabs.

Unit Name	Serves	Group Setpoints & Schedule	Occupied Heating	Occupied Cooling	Unoccupied Heating	Unoccupied Cooling	Optimum Stop Offset Range	Unoccupied Override Time	CO2 Setpoint	Setpoint Adjust Selection	Setpoint Adjust Range	Not Available When Using Space Sensor	
												Setpoint Adjust Reset	Setpoint Adjust Reset Time
Unit01		Group 1	66 °F	69 °F	65.0	78.0	2 °F	60 min	1000 ppm	Space Sensor	3.0 °F		
Unit02		Group 1	66 °F	69 °F	65.0	78.0	2 °F	60 min	1000 ppm	Space Sensor	5.0 °F		
Unit03		Group 1	66 °F	69 °F	65.0	78.0	2 °F	60 min	1000 ppm	Space Sensor	3.0 °F		

Set

- Space Sensor
- Home Tile
- Space Sensor

Weather Station Zip Code: 80125

Weather Station Location: Littleton

Comfort Percent Alert: 80 %

Map Marker Colorization: Enabled

TStat02 Main Office

71

Cool 74.0

Heat 71.0

Occupied

Humidity 51 %

Ventilation

When “**Home Tile**” is selected, adjustment arrows appear on the screen for the unit selected (*This allows deviation from the base setpoint, and will DISABLE the override abilities of the BAPI thermostat digital sensor*).

When the “**Space Sensor**” selection is enabled, the adjustment arrows will be removed from the home screen and override functions will be enabled at the BAPI digital sensor. The BAPI digital sensor will always display the current Space Temperature on the screen unless another button is pressed.

BAPI DIGITAL THERMOSTAT SENSOR OVERVIEW

OCCUPIED OR UNOCCUPIED ICON

When "PERSON" is an empty outline, the space is in the Unoccupied Mode. When the "PERSON" is filled/solid, the space is in the Occupied Mode.

Active Heating or Cooling Mode will be displayed here, with respective icons (flame or snowflake).

Pressing the "PERSON" button when the space is in the Unoccupied Mode will cause the space to enter the Occupied Mode for length of time set in the eIQ platform.



Space Temperature will be displayed unless the Setpoint Select Button* is pressed in which case this will display the Current Setpoint.

Setpoint Select Button*

Press "RED (up) arrow" to increase the Current Setpoint

Press "BLUE (down) arrow" to decrease the Current Setpoint

- *To adjust the space setpoint, press the **Setpoint Select Button**. This will replace the current Space Temperature value on the screen with the Current Setpoint.
- Use the **RED (up)** and **BLUE (down)** arrow buttons to raise or lower the setpoint.
 - By default, the system allows the thermostat to issue up to a 3° F (adjustable) variance from the primary setpoint programmed from the eIQ Platform.
 - The Current Setpoint that is displayed when the Setpoint Select Button is pressed is dependent on how close the current Space Temperature reading is to the Heating and Cooling setpoints.
 - If the space temperature is closer to the Cooling Setpoint, the Cooling Setpoint will be displayed.
 - If the space temperature is closer to the Heating Setpoint, the Heating Setpoint will be displayed.
 - The eIQ Platform writes a heating setpoint and a cooling setpoint to the unit controller. However, to simplify things, the BAPI digital thermostat only displays one setpoint and will automatically adjust **both** the heating and the cooling setpoint if a change is made at the thermostat.
- After raising or lowering the setpoint to the desired temperature, press the Setpoint Select Button, to save the setpoint change (this is a temporary override, and the setpoint will revert to it's primary setpoint, once the space temperature is satisfied).
- Any permanent setpoint change should be established in the eIQ Platform (web interface).

SETPOINT ADJUSTMENT VIA THE BAPI DIGITAL THERMOSTAT:

System setpoints can be modified based on an adjustment via the thermostat:

Example scenario:

74° F Cooling setpoint

&

66° F Heating setpoint

67° F Current Space Temperature
(shown on the BAPI Digital Thermostat display)

Raising the heating setpoint:

- Press the Setpoint Select Button, and 66° F setpoint will be displayed.
- Pressing the red arrow (up) twice, will increase the setpoint to 68° F.
- Based on this change, the unit would be sent a heating command.
- This will effectively *adjust the* setpoint in the controller from:

74° F Cooling setpoint

&

66° F Heating setpoint

to

76° F Cooling setpoint

&

68° F Heating setpoint