



# Geary Pacific Supply

HVAC PARTS • SUPPLIES • EQUIPMENT

## Bard

SINCE 1914

Climate Control Solutions

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# Energy Management and CO2 Monitoring Made Easy

Your simplest low cost solution for reducing HVAC energy waste

- Wireless thermostats with the most secure connectivity option available- 802.1x WIFI
- Built in CO2 sensor for continuous monitoring. TECS will display alerts for any room that reaches an unhealthy CO2 level
- Title 24 2024 compliant- including Demand Control Ventilation with a CO2 sensor (Section 120.1(d)), and Economizer Fault Detection and Diagnostics (FDD) (Section 120.2(i))
- Eliminate behavioral waste
- Real time use, CO2 levels, and fault indicators
- Identify inefficient and malfunctioning HVAC
- All HVAC schedules easily managed from one console
- Performance reports and historical data at your finger tips
- Quick and simple installation
- Remote Control
- 24/7 monitoring

“It is with genuine sincerity I would like to give you some feedback on the “Wi-Fi” stats we have installed at Raymond A. Villa Fundamental Intermediate School. They give us the ability to both monitor and manage the temperatures, the fans, and the schedules from our work-stations. Consequently, saving energy like we never had the opportunity before. This, in my opinion, is the perfect solution for all areas not covered by BMS controls like older buildings and freestanding bungalow classrooms at substantially lower cost than other control solutions we have been looking at.”

Petter Hennum,  
Energy Manager



**Monitor**

Individual HVAC Units



**Control**

Total Environmental Control Solution  
(T.E.C.S.)



**Save**

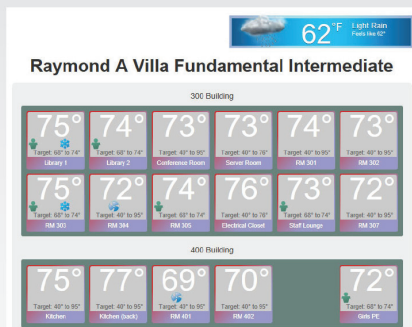
Monitor and Control Energy Usage  
for all HVAC Units from your Computer

# How It Works



## Wireless thermostats with the most secure connectivity

- TWC-48 WIFI thermostat connects through 802.1x authentication
- Title 24 2024 compliant- supports demand control ventilation with a CO2 sensor and economizer fault detection and diagnostics
- Simply replace your existing thermostat for easy installation (no gateways, controllers, or additional hardware required)
- Continuous CO2 Monitoring. Thermostat display will flash when CO2 levels exceed 1,100 ppm
- Easy operation features include “Push to Start” and “Timed Turn On”
- Give end users degrees of freedom
- Economizer fault detection



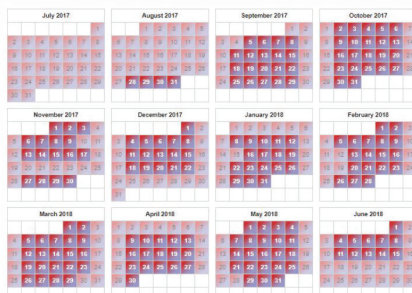
## Centralized Monitoring and Control

- Use TWC-48 Web-based software to remotely manage all your thermostats and monitor usage from any computer with Internet access
- Easily view CO2 levels in all rooms
- Communicate with existing Building Automation Systems via Tridium Niagara



## Secure Cloud Integration

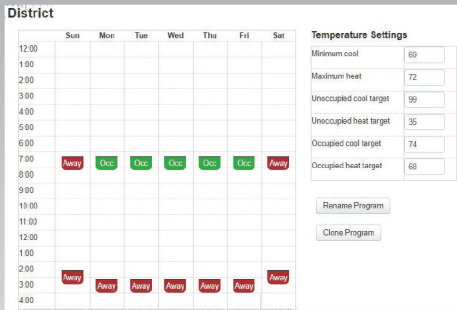
- Thermostats connect to your wireless network with WPA2-PSK (AES) and 802.1X authentication. Thermostats can connect using EAP-TLS using PKI (Certificate) or PEAP=MSCHAPv2 (Username and Password)
- Data is encrypted between your thermostat and the server
- The server is located offsite with daily database backups
- WPA3 Upgradable



## 365 Day Calendar

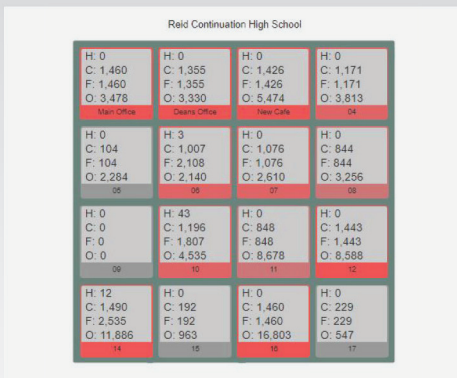
- By integrating with your yearly calendars, TWC-48 system ensures that your HVAC units will not run during weekends, holidays, and breaks.
- Use our Events Calendar to easily schedule onetime events throughout the year

# Access Usage Data with Ease



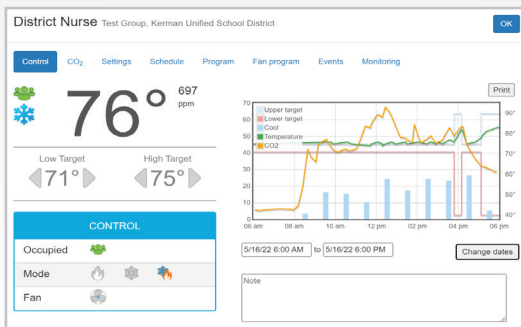
## Easy Setup

- Create groups with similar heating and cooling program needs to save you time
- Easily program heating and cooling temperature set points for all thermostats



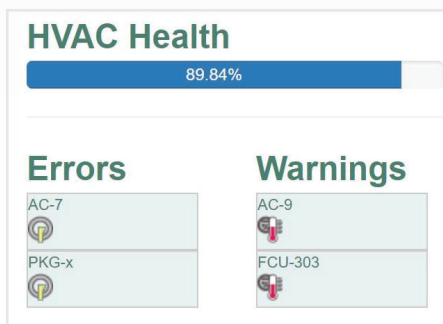
## Compare Usage

- Keep track of how many minutes your HVAC units are operating
- Identify when HVAC units are not heating and cooling efficiently
- Diagnose maintenance problems with easy access to usage information
- Compare CO2 levels of all rooms



## Graphs and Reports

- TWC-48 software includes intuitive graphs showing heating, cooling, and corresponding temperatures throughout the day
- Easily generate reports to compare thermostat usage and run times
- View trending CO2 levels throughout the day



## Real Time Alerts

- Diagnostic maintenance alerts easily viewed on the dashboard
- Alerts for rooms with dangerous CO2 levels
- Customizable alerts are emailed to notify you of potential maintenance issues