

# The Front Burner

*A Quarterly Newsletter Highlighting Product & Industry News*

## *ConnectedControls IoT platform*

**Bringing Connectivity to previously unconnected appliances.**

ConnectedControls IoT platform is a wireless control system for use with gas ignition controls within a range of appliances including freestanding commercial heaters.

**Why do I need this?** Wireless connectivity has become an expectation of devices in virtually all walks of life. However, until now, most freestanding heaters functioned individually and without visibility into or control over their operation.



**What does ConnectedControls do for me?** Integrates into your appliance collecting data from the gas ignition control and other sensors to monitor performance. Standard data is stored and trended to monitor performance goals such as flame strength quality, while critical data is transmitted to end-users and service personnel to alert them of conditions like ignition lockout so immediate action can be taken for resolution.

**How does it work?** The module communicates with the gas ignition control utilizing a universal asynchronous receiver transmitter (UART) to collect control data, additionally proving switches and other signals are wired directly to the unit. The module connects to the end-user's router for internet access and transmits data to a secure cloud server. The data is then available to end-users and service providers in a mobile application and available to the OEMs utilizing a web application.



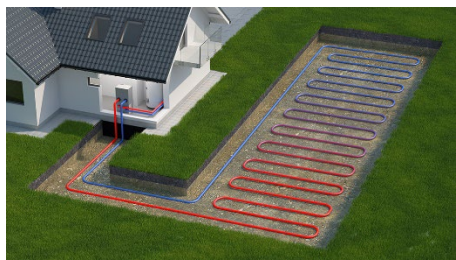
**What value does it provide?** Customers can monitor all their appliances and quickly be notified of many potential issues. Service providers receive firsthand data before responding to the customer, allowing them to bring the correct repair parts and improve first-time resolution. OEMs get appliance data and history to gain visibility of their field performance and knowledge to improve their products for the future.

[Learn more about ConnectedControls...](#)



## ***Geothermal Controls***

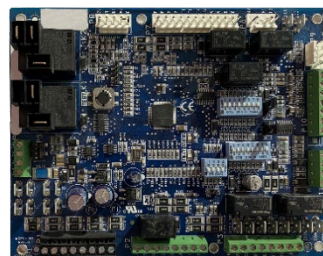
### ***Heating and cooling in a different light.***



Geothermal Heat Pumps extract the ground's consistent heat, which remains relatively constant below 10 feet deep. Geothermal heat pumps transfer the heat from the ground into buildings for heating and reverse the process in the summer. Geothermal heat pumps are considered one of the most energy-efficient, environmentally clean, and cost-effective systems for heating and cooling buildings.

Typical geothermal heat pump controls interface with standard 24VAC thermostats or, in some cases, communicating thermostats. These controls manage the basic operational sequences of the heat pumps while providing configurable functions and expanded diagnostics. Hardware features of these controls include full compressor and ECM blower motor control, temperature & freeze protection sensor inputs, low & high-pressure sensing, reversing valve control, and condensate overflow sensing. Some higher-end controls also offer configurable analog & digital outputs along with RS485 communication capabilities.

UTECH has been designing and building electronic controls for geothermal heat pumps since 1990. Our broad range of geothermal heat pump controls in the field have an estimated install base of close to 3 million controls, resulting in UTECH being the industry leader in this market.



[Check out all UTECH has to offer in HVAC controls...](#)

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## ***Modbus PIM®***

### ***A modulating gas burner safety device you can control.***

In the market for several years as a full-function modulating burner control, the Fenwal PIM® has recently received a significant upgrade to enhance its applicability to a wide range of commercial applications. This new PIM features Modbus communications, an open protocol adaptable to a variety of host controllers.

The addition of Modbus allows OEMs to utilize their own controller of choice to take advantage of the full functionality of the PIM. This will also provide building management systems the option of direct control of PIM operation.



[Look at our Modbus registry map to understand the possibilities...](#)

## Questions with your control systems?

Contact our Fenwal Controls Sales Managers: [Bill Sager](#) or [Mark Tully](#)

Contact our UTEC Sales Managers: [Doug Bergstedt](#) or [Jeff Lothamer](#)

Or find a representative near you at [fenwalcontrols.com](http://fenwalcontrols.com)

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