

## Energy and Programmable Controllers

### Simplified Direct Control

Vaughn has been designing and programming intuitive and flexible controllers for over 35 years. Our devices are designed to optimize water heater operations which result in a lower consumption of electricity. Controllers can be used for adjusting settings for season changes, as well as home/away time periods. The EC Vaughn controller was developed to satisfy the Utility Industries' need for peak control while offering a great ease of use for their end users. Utility controllers can accommodate complex program parameters while offering a streamlined, flexible interfaces for the end user. The tangible results of using Energy Controllers are real savings on energy bills, reduction in demand for electric utilities and decreased line losses and carbon emissions. Vaughn's gateway-neutral, WIFI, Cellular and BACnet Interfaces enable two-way real-time communication and control of the appliances.



- ✔ Real Energy Savings
- ✔ No Required Maintenance
- ✔ Avoid High Peak Demand Rates

### FEATURES

#### How It Works

- Controls high energy consumption appliances through a combination of predetermined schedules and/or real-time adjustments from utilities as a reaction to unpredicted load changes and also assists with power outage issues

#### Real Energy Savings

- Utility can shift load
- Homeowners benefit from abundance of hot water and reduced total heat loss

#### Simple Operation

- No maintenance required
- Real-time program adjustments can help utilities react to unanticipated load changes



### Electronic Controller ETC 160 and ETC 194

<b>APPLICATION</b>	Continually developed in conjunction with utility companies, can accommodate complex program parameters while offering a streamlined, flexible interface for the end user, independently controls the water heater's top and bottom elements providing accurate temperature control of the water heater
<b>EFFICIENCY</b>	Energy saving device designed to optimize electric water heater operations which results in a lower consumption of electricity
<b>ADDITIONAL INFORMATION</b>	Factory programmed, surge protected, flexible communications, no required maintenance; ETL Approved



TPI, ETC 101, ETC 102	
<b>APPLICATION</b>	Low voltage electronic thermostat with temperature accuracy within 2°, for storage, indirect and solar water heaters
<b>EFFICIENCY</b>	Energy saving device designed to optimize indirect water heater operations which results in a lower consumption of electricity, highly accurate temperature controller with adjustable differential
<b>ADDITIONAL INFORMATION</b>	LED displays operating mode, adjustable set point and differential; ETL Approved

### Energy Controller (EC6)

<b>APPLICATION</b>	The Energy Controller is a simple, yet sophisticated load control device; The device is specifically designed to meet the utility companies needs for the dedicated off-peak control of electric water heaters; Battery backup - 10 years standby, without power
<b>EFFICIENCY</b>	Energy saving to optimize electric water heater operations which results in a lower consumption of electricity
<b>ADDITIONAL INFORMATION</b>	Advanced microprocessor technology, flexible programming capabilities backlit, green element which provides complete self-diagnostics; Voltage = 208 - 240, ETL Approved

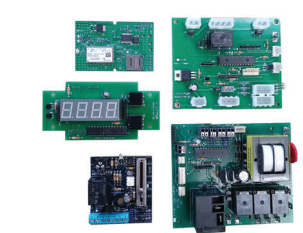


### WIFI and Cellular Interface

<b>APPLICATION</b>	The WIFI and Cellular interfaces enables the controller for remote communication. These connections can be used for reprogramming purposes such as season changes and may also be utilized to gauge usage patterns for the determination of future utility rates; the Cellular interface has easy installation and long-term connectivity regardless of home network changes and serves as a remote communication supplement to the existing, dedicated program schedule
<b>EFFICIENCY</b>	Energy saving to optimize water heater operations which results in a lower consumption of electricity
<b>ADDITIONAL INFORMATION</b>	Data logging, reprogramming, compatible with all major browsers; 36" cable; WIFI Dimensions 3.0"H (3.8" mounting) x 1.5"W x 0.8"D, dimensions - 3.0"H (3.8" mounting) x 1.5"W x 0.8"D; Two-way communication, cellular interface enables constant control of the water heater

### BACnet Interface

<b>APPLICATION</b>	The BACnet Interface provides compatibility with building management systems to allow remote monitoring and control
<b>EFFICIENCY</b>	Energy saving to optimize water heater operations which results in a lower consumption of electricity
<b>ADDITIONAL INFORMATION</b>	The BACnet Interface unit implements BACnet MS/TP protocol only. Case Size: 4.4 x 2.5 x 1.1 inches



### Custom Controllers

<b>APPLICATION</b>	Vaughn specializes in meeting the demands of a changing industry with ever improving technology; For inquiries into custom programming or controls, please contact us at 978.462.6683
<b>ADDITIONAL INFORMATION</b>	Immersion thermostats, timers, temperature controls, programmers, programming software; ETL Approved