## Submittal

Job

Designer\_

Contact

# **Smart Boiler Control 294**

The Smart Boiler Control 294 provides central and indirect domestic hot water heating or volume domestic hot water heating by operating up to four boilers. This can be expanded in groups of four boilers through the use of expansion controls up to a maximum of sixteen boilers. The 294 operates both condensing and non-condensing boilers that are either modulating, single, two, three or four-stage to provide a flexible, cost effective hybrid boiler plant solution. The Watts® OnSite web and mobile applications provide real-time remote monitoring, setting adjustments, and notifications.





#### Features

- Remote access using web/mobile app
- Email, text message, push notifications
- Operates 4 boilers
- Expandable to 16 boilers
- Boiler equal runtime rotation
- Central heating with outdoor reset
- Domestic hot water heating
- DHW priority and priority override
- Setpoint heating
- tekmarNet compatible
- Condensing/non-condensing groups
- Variable primary flow
- Combustion air damper control
- Programmable setback schedule
- PID and proportional staging options
- Sequential or parallel staging
- Fixed lead and fixed last options
- Warm weather shut down
- Pressure monitoring and alert
- Setup Wizard

### **Specifications**

Smart Boiler Control 294	
Literature	Submittal, Application, Installation and Operation Manual, Installation Sheet, Job Record
Packaged weight	3.3 lb. (1500 g)
Dimensions	9" H x 8" W x 2-11/32" D (229 x 203 x 60 mm)
Display	5" color touchscreen
Enclosure	Blue ABS plastic, NEMA type 1
Approvals	CSA C US, FCC Part 15B, ICES-003 Class A
Ambient conditions	Indoor use only, 32 to 122°F (0 to 50°C), RH $\leq\!90\%$ non-condensing, Altitude $<6560$ feet (2000 m), Installation Category II, Pollution Degree 2
Power supply	115 V (ac) ±10%, 60 Hz, 9 W
Relays	230 V (ac), 5A, 1/3 hp
Modulating outputs	0-10 V (dc) 500 $\Omega$ minimum load impedance or 4-20 mA 1 k $\Omega$ max load impedance
Calls	24 V (ac) or Short
Sensor	NTC thermistor, 10 kΩ @ 77°F (25°C ±0.2°C) β=3892
-Included	Outdoor Sensor 070, Universal Sensor 082
-Optional	tekmar type # 071, 078, 087, 088
Communications	10/100 Ethernet, WiFi 802.11n, 2.4 GHz, WPA2 encryption
Mobile App	Apple iOS 14 or higher, Android 10 or higher
Warranty	Limited 3 Year (See IOM for full warranty)



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## Sample Application Drawing

Sample Mechanical diagram

