The Boiler Control 261 is designed to stage multiple boilers using outdoor reset. It can be used in applications ranging from a single zone of baseboard, multiple baseboard and fan coil zones, to dedicated setpoint heating in commercial buildings. This control regulates a single heating water temperature through outdoor reset and/or setpoint target control. It is capable of controlling (stage and rotate) up to 2 on/off boilers, or a single 2 stage boiler, as well as the system pump.

### Specifications

**Boiler Control 261 Two Stage Boiler & Setpoint**

- **Literature**: D261, A261, D001, D070
- **Control**: Microprocessor control. This is not a safety (limit) control
- **Packaged weight**: 3.0 lb. (1340 g)
- **Dimensions**: 6-5/8" H x 7-9/16" W x 2-13/16" D (170 x 193 x 72 mm)
- **Enclosure**: Blue PVC plastic, NEMA type 1
- **Approvals**: CSA C US, meets class B: ICES & FCC Part 15
- **Ambient conditions**: Indoor use only, 32 to 113°F (0 to 45°C), RH ≤90% Non-condensing
- **Power supply**: 120 V (ac) ±10%, 50/60 Hz, 1300 VA
- **Relays**: 240 V (ac) 10 A, 1/3 hp
- **Demands**: 20 to 260 V (ac) 2 VA
- **Sensors**: NTC thermistor, 10 kΩ @ 77°F (25°C ±0.2°C) β=3892
  - Included: Outdoor Sensor 070 and Universal Sensor 082
  - Optional: tekmar type #: 033
- **Warranty**: Limited 3 Year (See D261 for full warranty)

### Energy Saving Features

- Outdoor Reset
- Setback input for energy savings
- Warm Weather Shut Down
- Automatic Boiler Differential

### Additional Features

- 2 Stage boiler control
- Quick setup for easy installation and programming of control
- User comfort adjustment to increase or decrease building space temperature
- Advanced settings to fine-tune building requirements
- Pump exercising
- Powered boiler pump output
- Test sequence to ensure proper component operation
- 120 V (ac) power supply

### SPECIAL REQUIREMENTS

**N / A**
Below is a sample application drawing for this product. This application may include other tekmar products that are required for installation. More sample applications can be found at www.tekmarcontrols.com.

Sample Application Drawing

Sample Mechanical diagram

Sample Electrical diagram

Legend:

S1 = Boiler Supply Sensor
S2 = Outdoor Sensor
P1 = System Pump
B1 = Boiler 1
B2 = Boiler 2
D1 = Boiler Demand
D2 = Snowmelt Setpoint Demand

* Please see C665 for snowmelt application.

Boiler Control 261
Two Stage Boiler & Setpoint

Made in Canada by tekmar Control Systems Ltd.

Power: 120 V ±10% 60/60 Hz 150 VA
Rated: 24 V (ac) 10 A 1/3 hp. and duty 240 VA
Demands: 20 to 260 V (ac) 2 VA

Signal wiring must be rated at least 300 V
Use supply wires suitable for 120°F (50°C) above ambient

 tekmar 009
Transformer

120 V (ac)