



Boiler Control 275

One tN4, Four Modulating Boilers & DHW/Setpoint



Mix & Match Boilers to Improve Boiler Plant Efficiency

The Boiler Control 275 is designed to stage up to four condensing or non-condensing, modulating or on-off boilers using P.I.D. staging to accurately maintain temperature. The 275 can control mixed boiler plants that contain both condensing and non-condensing boilers.

Water temperature is controlled by outdoor temperature reset for space heating applications or a fixed setpoint for Domestic Hot Water (DHW) tank heating or industrial process heating applications.

The control will also accept an analog 0-10 V (dc) signal from an Energy Management System (EMS) to control the water temperature. Boiler equal run-time rotation, pump exercising and stand-by system pump operation increase boiler plant reliability. The control is tekmarNet[®] communication compatible allowing for internet connectivity using an optional Gateway 483.

Get the Most Out of Your System

- Mix condensing & non-condensing boilers
- tekmarNet[®] communication
- Outdoor temperature reset
- Automatic boiler differential
- Primary pump sequencing
- Equal run time rotation
- Test sequencing
- Powered system pump output
- Optional domestic hot water priority
- Optional boiler pump(s) operation
- Access levels & alerts
- Programmable schedules

One control strategy for boiler plants with both condensing & non-condensing boilers.



HVAC Systems



Multi-Staging



Alternative Energy



Zoning



Snow Melting



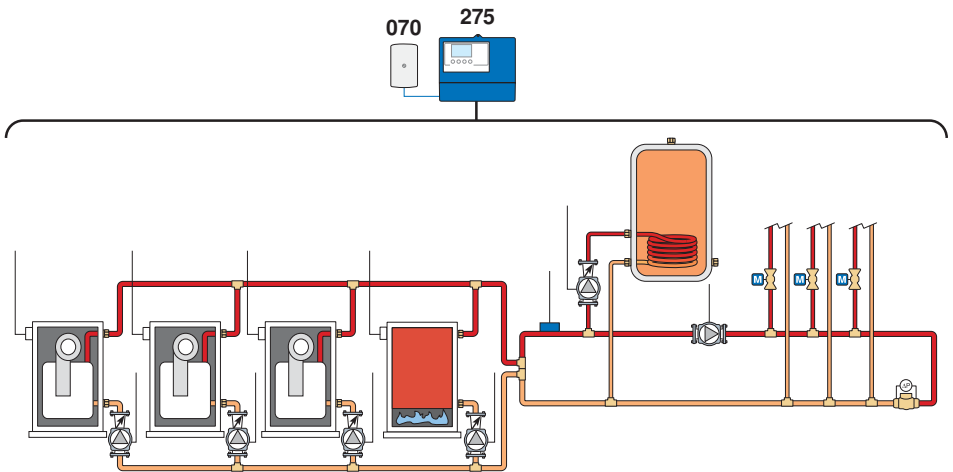
Setpoint



Sample Application Drawings

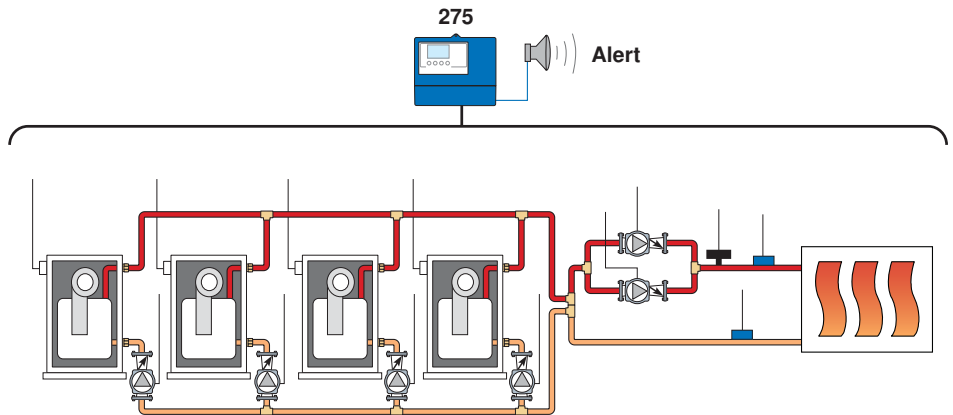
Condensing & Non-Condensing Boiler Plant Groups

Up to four modulating condensing boilers & a single on/off non-condensing boiler operate to provide outdoor reset for the space heating and domestic hot water generation. The condensing boilers use equal run time rotation to balance running hours while the non-condensing boiler always fires last. When the non-condensing boiler is operated, a minimum boiler temperature is set to prevent boiler condensation.



Modulating Boilers

Up to four modulating condensing boilers operate to provide a heating temperature target controlled by an Energy Management System (EMS). The EMS requests a temperature by using a 0 to 10 V (dc) or 2 to 10 V (dc) analog signal. The control operates two system pumps piped in parallel. In the event of the lead pump failing, the lag pump is automatically turned on.



Volume Domestic Hot Water Tank Heating

Up to four modulating boilers operate to heat a domestic hot water (DHW) tank. The control operates the DHW recirculation pump on a programmable schedule.

