tekmar [®] Submittal Boiler Control 275				C 275 01/12
			Multi-Staging	Replaces: 01/11
Job	Designer	Contact		

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 control supports hybrid boiler plants that contain both condensing and non-condensing boiler groups. Water temperature is controlled by outdoor 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.



Specifications

Boiler Control 275	One tN4, Four Modulating Boiler & DHW / Setpoint		
Literature	D275, A275, D001, D070		
Control	Microprocessor control. This is not a safety (limit) control		
Packaged weight	3.3 lb. (1500 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 122°F (0 to 50°C), RH ≤90% Non- condensing		
Power supply	115 V (ac) ±10%, 60 Hz, 7 VA, 1150 VA max		
Relays	230 V (ac) 5 A, 1/3 hp		
Modulating output	0 - 10 V (dc), Minimum 2500 Ω		
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, 2 of Universal Sensor 082, and 500 Ω Resistor		
Warranty	Limited 3 Year (See D275 for full warranty)		

Energy Saving Features

- Outdoor temperature reset
- Programmable schedule
- Warm weather shut down
- Automatic boiler differential
- tekmarNet[®]4 compatible

Additional Features

- Condensing & non-condensing boiler groups
- · Control up to 4 modulating or on/off boilers
- Primary pump sequencing
- DHW pump operation
- Optional DHW priority
- · Equal run time rotation
- Pump exercising
- Powered system pump output
- Test sequence to ensure proper component operation
- 115 V (ac) power supply
- Optional boiler pump(s) operation
- Access levels
- Alerts

SPECIAL REQUIREMENTS N / A

Sample Application Drawing

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.

