

Connecting tekmar Boiler Controls to Triangle Tube Prestige Boilers

Compatibility:

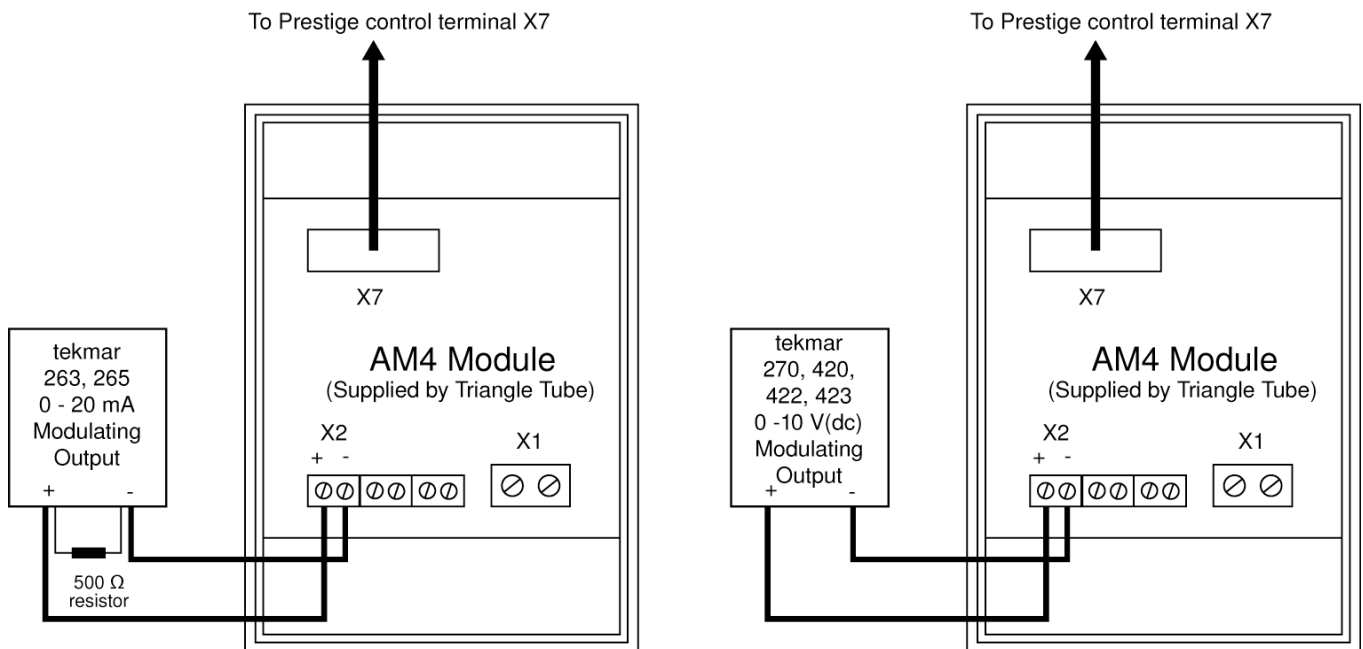
The Triangle Tube Prestige modulating condensing boiler can be operated using any tekmar boiler control that includes a modulating output. As of July 2006 this includes the following models:

- Boiler Control 263 (1 boiler)
- Boiler Control 270 (1 boiler)
- Boiler Control 265 (up to 3 boilers, available in the US after March 1, 2007)
- tN4 Boiler Reset Module 420 (1 boiler)
- tN4 Universal Reset Module 422 (1 boiler)
- tN4 Universal Reset Module 423 (up to 2 boilers)

In order to connect to a tekmar boiler control, an AM4 Module must be purchased from Triangle Tube for each Prestige boiler.

Wiring Instructions:

Wire the tekmar Boiler Control to the AM4 and the Prestige as per the drawing below:



- 1) The Prestige boiler when used with the AM4 module does not require a boiler enable or thermostat connection.
- 2) The tekmar Boiler Control should operate the boiler pump when available.

Prestige Settings:

The Triangle Tube Prestige control requires some parameters to be changed in order for the control to accept the AM4 module. Parameter 34 on the Prestige must be set from x0 to x4 "0-10V on AM4:capacity". Please follow the directions from Triangle Tube and call Triangle Tube if you have any questions.

Essential tekmar Boiler Control Settings:**263**

DIP Switches:	
Soft Stop / Off	Off
Adjust Menu Settings:	
Mode	2 (Modulating Boiler)
Fire Delay	2:00 minutes
Boiler Mass	1 (Low Mass)
Motor Speed	30 seconds
Boiler Modulation	0:20 mA* Note: A 500 Ohm resistor is required.
Minimum Modulation	18%
Maximum Modulation	100%

265

DIP Switches:	
Soft Stop / Off	Off
Adjust Menu Settings:	
Fire Delay	2:00 minutes
Boiler Mass	1 (Low Mass)
Motor Speed	30 seconds
Minimum Boiler Output	Minimum BTU rating divided by 10 000 (turn down ratio is currently 5:1)
Maximum Boiler Output	Maximum BTU rating divided by 10 000
Boiler Modulation	0:20 mA* Note: A 500 Ohm resistor is required.
Minimum Modulation	18%
Maximum Modulation	100%

270

Adjust Menu Settings:	
Fire Delay	2:00 minutes
Boiler Mass	1 (Low Mass)
Motor Speed	30 seconds
Boiler Modulation	0:10 V(dc)
Minimum Modulation	18%
Maximum Modulation	100%

420

DIP Switches:	
Boil On-Off / Mod	Mod
Off / tekmar Stager	Off
Adjust Menu Settings:	
Fire Delay	2:00 minutes
Boiler Motor	30 seconds
Minimum Modulation	18%
Maximum Modulation	100%

422

DIP Switches:	
Boil Sens Sup / Ret	Sup (Supply)
Boiler On-Off / Mod	Mod
Off / tekmar Stager	Off
Adjust Menu Settings:	
Fire Delay	2:00 minutes
Boiler Motor	30 seconds
Minimum Modulation	18%
Maximum Modulation	100%

423

DIP Switches:	
Boil Sens Sup / Ret	Sup (Supply)
Off / tekmar Stager	Off
Boiler On-Off / Mod	Mod
Adjust Menu Settings:	
Fire Delay	2:00 minutes
Boiler Motor	30 seconds
Boiler Minimum Modulation	18%

Sincerely yours,

Jay Vath
tekmar Control Systems Ltd.