tekmar® form	Service Bulletin	SB 066 Mar 21, 2011	v0011

Installing the 263 and 265 Modulating Boiler Controls with Modulating Boilers

The following table describes the essential setting required for the 263 and 265 when installed with some of the most common modulating boilers on the market. For a complete list of compatible boilers, please refer to tekmar Service Bulletin SB 032.

Table 1: Essential Settings on the 263 and 265 for Several Different Boilers

Boiler Model	Fire Delay (min)	Motor Speed (sec)	Boiler Modulation	Minimum Modulation (%)	Maximum Modulation (%)	Required Equipment from Boiler Manufacturer	Boiler Control Setting		
							Parameter	Setting	Reference
Buderus GB142, 162, 312	0:40	10	0:20	30	100	EM10 Module	None	None	None
Burnham Alpine	0:40	30	4:20	0	100	None	Central Heating Modulation Source	4-20mA	p.109 I&O Manual
Dunkirk Q95M-200	2:15	10	0:20	18	100	HAM 0-10VDC Module	Parameter 34 [P .34]	[- - 04]	p.3 Ham Installation Instructions
Heat Transfer Products Elite	0:24	24	0:20	16	100	None	Function 16	0-10 Volt	p.57 Installation Manual
							Function 17	Fan Speed	
Heat Transfer Products Munchkin	0:24	60	0:20	16	100	Munchkin Interface Board	Function 16	1	p.60 Boiler Manual
							Function 17	1	
Laars NeoTherm	1:20	30	4:20	0	100	None	None	None	None
Lochinvar Knight	0:50	16	0:20	20	100	None	H3	Active	p.24 Service Manual
Lochinvar Sync	0:50	16	0:20	20	100	None	Demand conf	3	p.19 Service Manual
Peerless PureFire REV2	0:15	50	0:20	20	100	Interface Adapter PFA-1	Heating Mode	Mode 5	p.43 I&O Manual
Triangle Tube Prestige Solo	2:35	90	0:20	18	100	None	Parameter 45	02	p.54 I&M Manual
Weil-McLain Ultra Series 3	1:30	60	0:20	20	100	None	ADD'L HEAT DEMAND	Type 4	p.64 Boiler Manual

It is important to note that the 263 and 265 provides a 0-20 mA or 4-20 mA signal. When installed with a boiler that requires a 0-10 VDC, a 500 ohm resistor must be installed between the “+” and “-“ terminals on the modulating output of the control.

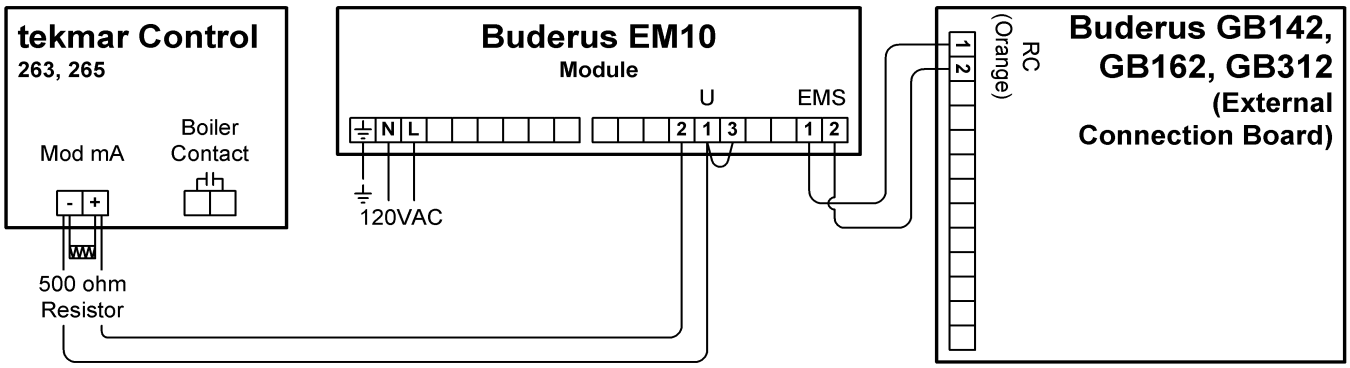

Figure 1: Wiring Diagram for a Buderus GB142, GB162 and GB312 Boilers to a tekmar 263, 265

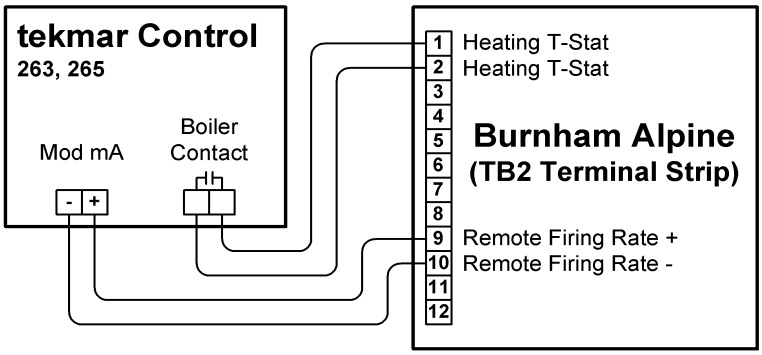

Figure 2: Wiring Diagram for a Burnham Alpine Boiler to a tekmar 263, 265

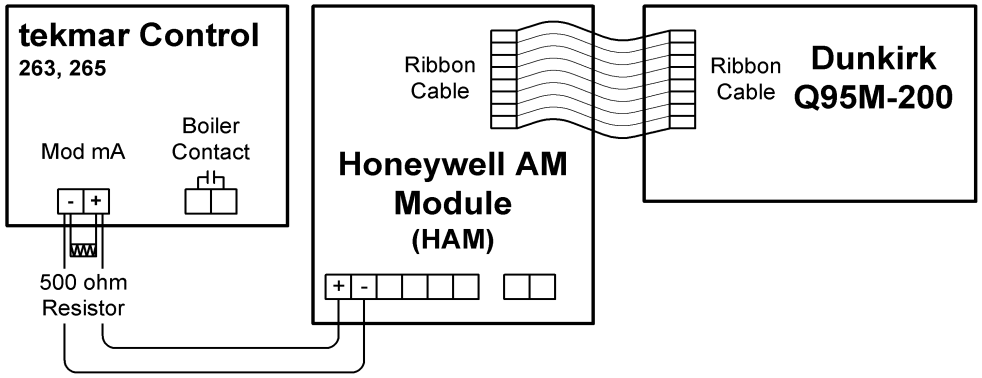

Figure 3: Wiring Diagram for a Dunkirk Q95M-200 Boiler to a tekmar 263, 265

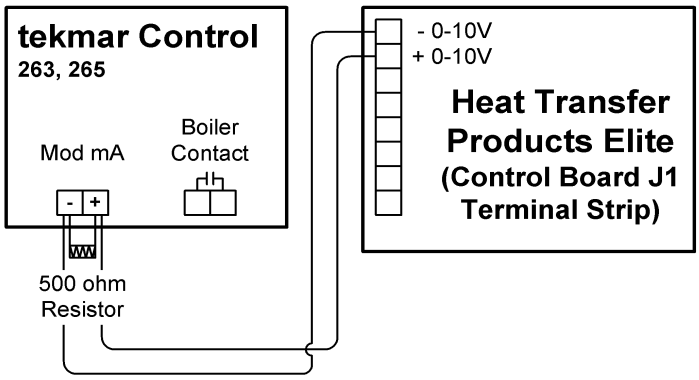

Figure 4: Wiring Diagram for a Heat Transfer Products Elite Boiler to a tekmar 263, 265

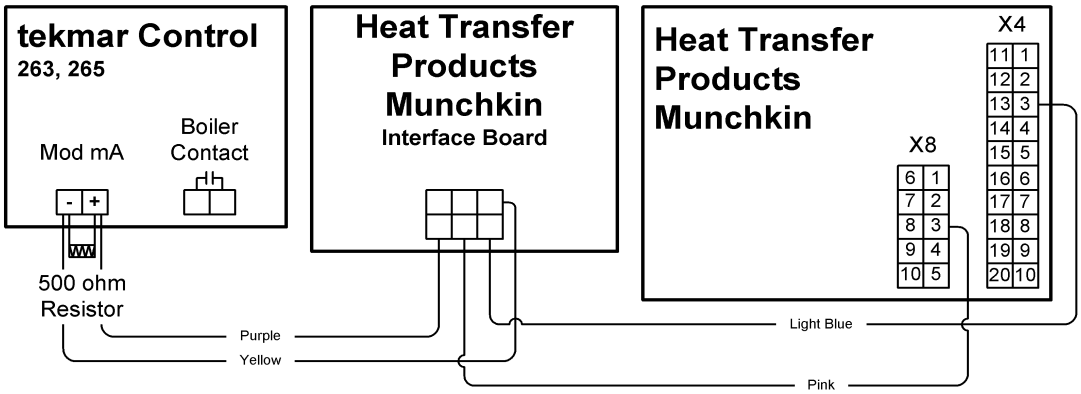

Figure 5: Wiring Diagram for a Heat Transfer Products Munchkin Boiler to a tekmar 263, 265

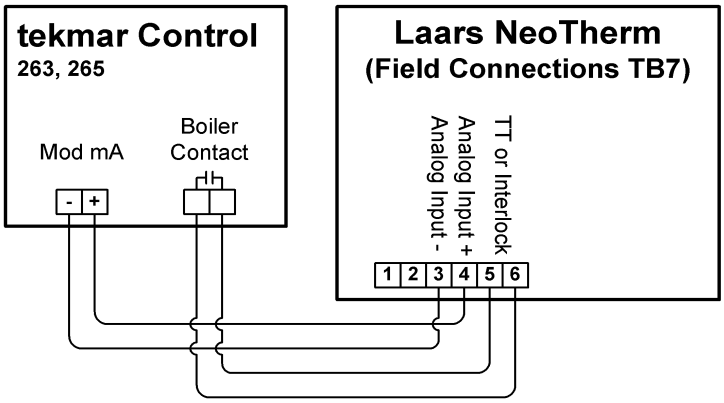

Figure 6: Wiring Diagram for a Laars NeoTherm Boiler to a tekmar 263, 265

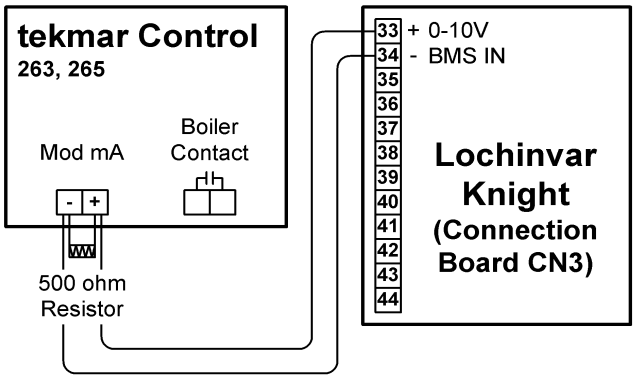

Figure 7: Wiring Diagram for a Lochinvar Knight Boiler to a tekmar 263, 265

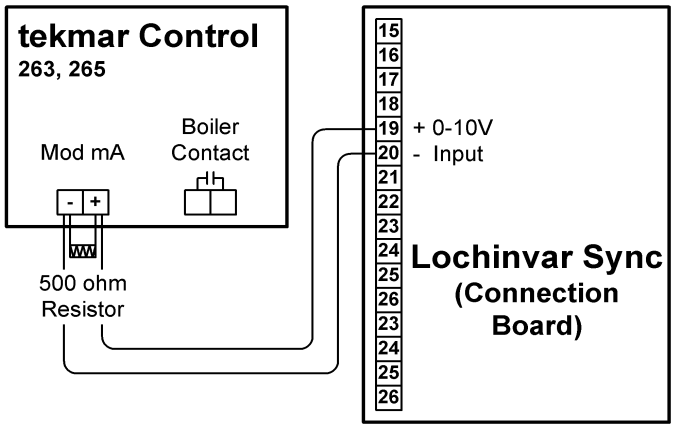

Figure 8: Wiring Diagram for a Lochinvar Sync Boiler to a tekmar 263, 265

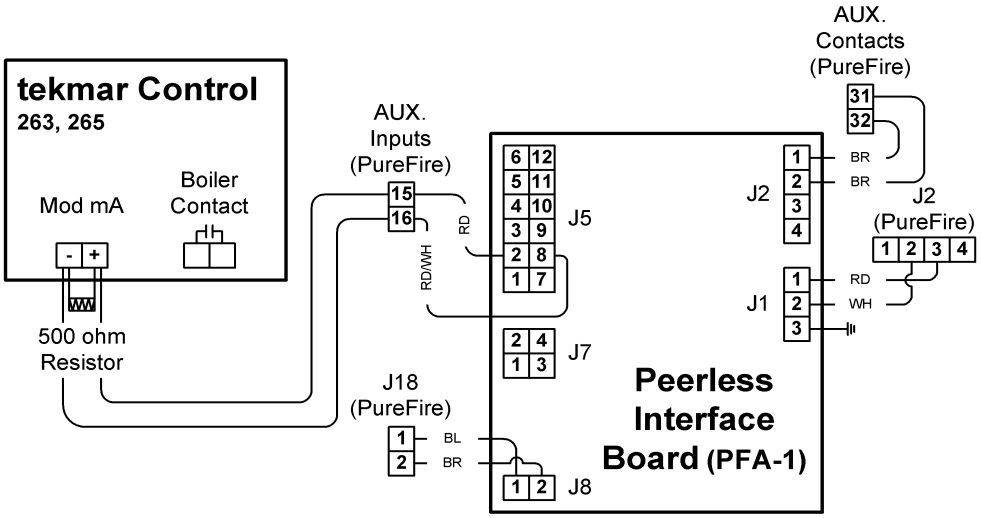

Figure 9: Wiring Diagram for a Peerless PureFire Boiler to a tekmar 263, 265

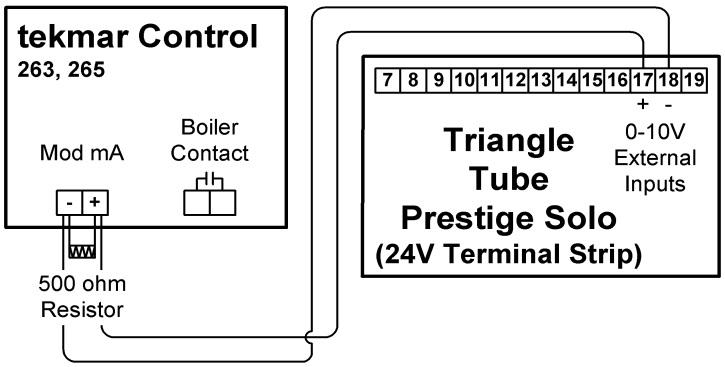

Figure 10: Wiring Diagram for a Triangle Tube Prestige Solo Boiler to a tekmar263, 265

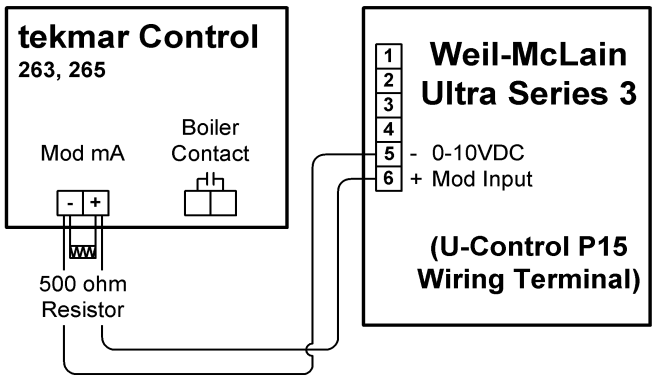

Figure 11: Wiring Diagram for a Weil-McLain Ultra 3 Boiler to a tekmar 263, 265