Document 5093

FEATURES	M4-LHS	NEOTHERM SOLA CONTROLLER
Control multiple boilers	Control 4 units or stages with controller, up to 16 with ext. modules	Control up to 8 units, 1-master and 7 slave units
Lead lag rotate	lead/lag/rotate-user programmable based on days/hours/last on, last off	Lead/lag/rotate based off of run time. Not adjustable
Choose condensing or non-con- densing groups based on system temperature	Yes	No
Outdoor reset with adjustable system water temperature	Yes	Yes
Warm weather shutdown	Yes	Yes
Accepts external control signal from BMS	Yes: 4-20mA, using the XSIG interface module	Yes: 4-20mA standard, or 0-10 with converter kit CA 006100
Control temperature range between on/off cycles	Yes: adjustable start point and modulation start point	Yes: built into the control, using the Base Load (BL) to control input rate before next boiler fires, and Hysteresis (HS) to control the temp range between on/off cycles
Communicates with BMS or EMS	Yes: BacNet, with the BacNet interface module	Yes: Mod Bus built into controller
Enable system pump	Yes: using terminals 3 & 4 (dry contacts)	Yes: using the system pump dry contacts on TB5, good for 7.4 A or 1 HP max
Enable DHW pump	No	Yes: using the system pump dry contacts on TB5, good for 7.4 A or 1 HP max
DHW priority	Yes: with or without DHW priority	Yes: with priority
Built-in day/night schedule with adjustable night setback for fuel savings	Yes	No
Alarm contacts	Yes	Yes
Parallel or normal modulation	Yes: both	Yes: both
Each boiler can be individu- ally operated fully on, manually adjusted, off, or be considered a standby boiler	Yes	No: units are enabled/disabled by the controller, based off Base Load (BL) settings, and Hysteresis without the option of being a standby boiler
Anti short-cycle setting	Yes: soft-off feature, lag delay and last stage hold assist in minimizing boiler short-cycling	Yes: ASC setting allows you a set delay time before the unit(s) come back on to minimize short cycling
BacNet / ModBus / LonWorks	BacNet only with the following contacts: • Outdoor temperature • System temperature • Output status • Control status • Season • Reset ratio • Offset • Outdoor cutoff • Minimum water temp. • Maximum water temp. • Setback • Purge delay • System run-on • Rotation time • Standby time • Last stage hold • Condensing unit lead stage • Non-condens- ing unit lead stage • Reaction time • Minimum run time • Gain • Lag delay • Soft off • Set time • Day schedule • Night schedule	 ModBus only with the following contacts: Burner Status • Fan speed RPM System sensor • CH setpoint DHW setpoint • Inlet temp • Outlet temp LL setpoint • Modulation input Lockout code • Alarm codes DHW priority count • Pump status



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