This document lists and briefly describes the Modbus registers available on Futera III, Futera XLF, Futera Fusion, Futera Fusion XLF, FlexCore, Torus, and Encore Series Boilers with a HeatNet V3 control board.

Some registers reference a specific boiler. The following substitutions should be used:

Boiler01 = The Modbus connected boiler (master or standalone)

Boiler02 = Member 2

Boiler03 = Member 3

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Boiler16 = Member 16

#### Input/Output Variables (Read/Write)

Address	Name	Raw Data Type	Scale	Description	Valid Values/Range
40001	HeatDemand	1 bit unsigned		Heat Demand/Request. Setting the state member of this variable will put the boiler in heating mode.	0 = no heat demand 1 = heat demand
40002	SetpointTimer	16 bit unsigned		System Setpoint Timer  The system setpoint timer is a BMS failsafe feature. This countdown timer should be periodically reloaded with a timeout value (in seconds). If the timer reaches zero, the control assumes that the BMS is no longer operating and the local setpoint (saved on the control) is reloaded. This is a failsafe feature used to help safeguard the system in case of BMS failure.  When any (1) Read/Write variable is timer is written, if the SetpointTimer is less than 60, it is automatically reloaded with 60.  (1) In Firmware Versions < 3.38, the BMS has to write the SystemSetpoint to automatically reload the SetpointTimer.	0 – 65535 seconds
40003	Setpoint	8 bit unsigned	1.0	System Setpoint (see SetpointTimer)	40 - 195 °F *  *Higher Temperatures allowed in some products
40004	OAResetEnable	1 bit unsigned		Enables/Disables outdoor air reset mode.	0 = disabled 1 = enabled

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Address	Name	Raw Data Type	Scale	Description	Valid Values/Range
40005	OARSetpoint	16 bit signed	1.0	Outdoor air reset setpoint. Temperature at which boiler shuts down.	40 – 100 °F
40006	OARHighWaterTemp	16 bit signed	1.0	Boiler water temperature setpoint when outdoor air temperature is at the high outdoor air temperature setpoint (OARHiAirTemp).	60 – 190 °F
40007	OARHighAirTemp	16 bit signed	1.0	High outdoor air temperature setpoint.	50 – 90 °F
40008	OARLowWaterTemp	16 bit signed	1.0	Header/Supply temperature setpoint when outdoor air temperature is at the low outdoor air temperature setpoint (OARLoAirTemp).	70 – 195 °F *  *Higher Temperatures allowed in some products
40009	OARLowAirTemp	16 bit signed	1.0	Low outdoor air temperature setpoint.	-35 – 40 °F
40010	SetMonth	8 bit unsigned		Set real time clock – month (see SetClock)	0 (January) - 11 (December)
40011	SetDay	8 bit unsigned		Set real time clock – day (see SetClock)	1 – 31
40012	SetYear	8 bit unsigned		Set real time clock – year (see SetClock)	0 – 99
40013	SetHour	8 bit unsigned		Set real time clock – hour (see SetClock)	0 – 23
40014	SetMinute	8 bit unsigned		Set real time clock – minute (see SetClock)	0 – 59
40015	SetSecond	8 bit unsigned		Set real time clock – second (see SetClock)	0 – 59
40016	SetWeekday	8 bit unsigned		Set real time clock – weekday (see SetClock)	1 (Monday) - 7 (Sunday)
40017	SetClock	1 bit unsigned		Set (write) the real time clock.  To write the real time clock, the system variables (SetMonth, SetMonth, SetDay, SetYear, SetHour, SetMinute, SetSecond, SetWeekday) must first be loaded with the correct date and time. Then, a 1 must be written to the state portion of this system variable to write the new date and time to the system clock.	0 = no action 1 = set/write the clock
40018	DHWSetpoint	16 bit signed	1.0	DHW Setpoint	40 - 200 °F
40019	BMSFlowRateGPM	16 bit unsigned	1.0	Sets the flow rate (in GPM) that is measured by the BMS system. Please see "Flow Limited Control" in the firmware revision sheet for a complete description.	0 – 1500 GPM
40020	BMSLimitBoilers	16 bit unsigned		Sets that number of boilers that HeatNet can control. Please see "Boilers Limited Control" in the firmware revision sheet for a complete description.	0 – 16

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#### **Input Variables (Read Only)**

Address	Name	Raw Data Type	Scale	Description	Valid Values/Range
30001	BoilersOn	8 bit unsigned		The number of boilers currently running.	0 – 16
30002	Modulation	8 bit unsigned	0.01	Current system (target) modulation level. This is the modulation level that the system is trying to run at to meet the heating demand.	0 – 100 %
30003	HeaderTemp	16 bit signed	0.01	Header / System temperature.	32 – 250 °F
30004	SupplyTemp	16 bit signed	0.01	Supply temperature.	32 – 250 °F
30005	ReturnTemp	16 bit signed	0.01	Return temperature.	32 – 250 °F
30006	OutsideTemp	16 bit signed	0.01	Outside air temperature.	-40 – 250 °F
30007	Spare1	16 bit signed		Raw A/D value from spare 1 input.	-32768 to 32767
	DHWTemp	16 bit signed	0.01	DHW temperature	32 – 250 °F
30008	Spare2	16 bit signed		Raw A/D value from spare 2 input.	-32768 to 32767
	StackTemp	16 bit signed	0.01	Stack temperature. Currently available in PVC version of firmware only.	-51 - 271 °F
30009	Month	8 bit unsigned		Real time clock month.	0 (January) - 11 (December)
30010	Day	8 bit unsigned		Real time clock day.	1 – 31
30011	Year	8 bit unsigned		Real time clock year.	0 – 99
30012	Hour	8 bit unsigned		Real time clock hour.	0 – 23
30013	Minute	8 bit unsigned		Real time clock minute.	0 – 59
30014	Second	8 bit unsigned		Real time clock second.	0 – 59
30015	Weekday	8 bit unsigned		Real time clock weekday.	1 (Monday) – 7 (Sunday)
30016	Boiler01Status1	16 bit unsigned		Boiler (1 – 16) status1 and status 2 flags. These bits indicate the state of	See the BoilerStatus1 Flags
30017	Boiler01Status2			various boiler statuses.	and BoilerStatus2 Flags in Appendix A.
30018	Boiler02Status1			Boiler01 = Master or "Connected Boiler"  Boiler02 = Member01	
30019	Boiler02Status2				
30020	Boiler03Status1			Boiler16 = Member15	

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Address	Name	Raw Data Type	Scale	Description	Valid Values/Range
30021	Boiler03Status2				
30022	Boiler04Status1	-			
30023	Boiler04Status2	-			
30024	Boiler05Status1	-			
30025	Boiler05Status2	-			
30026	Boiler06Status1				
30027	Boiler06Status2				
30028	Boiler07Status1				
30029	Boiler07Status2	-			
30030	Boiler08Status1	-			
30031	Boiler08Status2				
30032	Boiler09Status1	-			
30033	Boiler09Status2	-			
30034	Boiler10Status1				
30035	Boiler10Status2	-			
30036	Boiler11Status1	-			
30037	Boiler11Status2				
30038	Boiler12Status1	-			
30039	Boiler12Status2				
30040	Boiler13Status1				
30041	Boiler13Status2	-			
30042	Boiler14Status1	-			
30043	Boiler14Status2				
30044	Boiler15Status1	-			
30045	Boiler15Status2	-			
30046	Boiler16Status1				

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Address	Name	Raw Data Type	Scale	Description	Valid Values/Range
30047	Boiler16Status2				
30048	Boiler01RuntimeHigh16	16 bit unsigned		Boiler (1 – 16) Runtime seconds High (Upper) and Low (Lower) 16 bit	0 – 4294967295 seconds
30049	Boiler01RuntimeLow16			counters. To get the actual runtime for any given boiler (##), the high and low 16 bit counters must be combined (concatenated) into a single 32 bit	
30050	Boiler02RuntimeHigh16			counter as:	
30051	Boiler02RuntimeLow16			Boiler##RuntimeHigh16:Boiler##RuntimeLow16	
30052	Boiler03RuntimeHigh16			Example	
30053	Boiler03RuntimeLow16			Boiler01Runtime = (Boiler01RuntimeHigh16 * 65536) + Boiler01RuntimeLow16	
30054	Boiler04RuntimeHigh16			Bolloto Hammille Low To	
30055	Boiler04RuntimeLow16			Boiler01 = Master or "Connected Boiler"	
30056	Boiler05RuntimeHigh16			Boiler02 = Member01	
30057	Boiler05RuntimeLow16			Boiler16 = Member15	
30058	Boiler06RuntimeHigh16				
30059	Boiler06RuntimeLow16				
30060	Boiler07RuntimeHigh16				
30061	Boiler07RuntimeLow16				
30062	Boiler08RuntimeHigh16				
30063	Boiler08RuntimeLow16				
30064	Boiler09RuntimeHigh16				
30065	Boiler09RuntimeLow16				
30066	Boiler10RuntimeHigh16				
30067	Boiler10RuntimeLow16				
30068	Boiler11RuntimeHigh16				
30069	Boiler11RuntimeLow16				
30070	Boiler12RuntimeHigh16				
30071	Boiler12RuntimeLow16				
30072	Boiler13RuntimeHigh16				

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Address	Name	Raw Data Type	Scale	Description	Valid Values/Range
30073	Boiler13RuntimeLow16				
30074	Boiler14RuntimeHigh16				
30075	Boiler14RuntimeLow16				
30076	Boiler15RuntimeHigh16				
30077	Boiler15RuntimeLow16				
30078	Boiler16RuntimeHigh16				
30079	Boiler16RuntimeLow16				
30080	Boiler01Status3	16 bit unsigned		Boiler (1 – 16) status3 flags. These bits indicate the state of various boiler	See the BoilerStatus3 Flags
30081	Boiler02Status3			statuses.	in Appendix A.
30082	Boiler03Status3			Boiler01 = Master or "Connected Boiler" Boiler02 = Member01 Boiler16 = Member15	
30083	Boiler04Status3				
30084	Boiler05Status3				
30085	Boiler06Status3				
30086	Boiler07Status3				
30087	Boiler08Status3				
30088	Boiler09Status3				
30089	Boiler10Status3				
30090	Boiler11Status3				
30091	Boiler12Status3				
30092	Boiler13Status3				
30093	Boiler14Status3				
30094	Boiler15Status3				
30095	Boiler16Status3				
30096	Boiler01SupplyTemp	16 bit signed	0.01	Boiler (1 – 16) supply temperature (if available). See BoilerStatus2 to	32 – 250 °F
30097	Boiler02SupplyTemp			determine if the sensor is present.	
30098	Boiler03SupplyTemp			Boiler01 = Master or "Connected Boiler"	

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Address	Name	Raw Data Type	Scale	Description	Valid Values/Range	
30099	Boiler04SupplyTemp				Boiler02 = Member01	
30100	Boiler05SupplyTemp			Boiler16 = Member15		
30101	Boiler06SupplyTemp					
30102	Boiler07SupplyTemp					
30103	Boiler08SupplyTemp					
30104	Boiler09SupplyTemp					
30105	Boiler10SupplyTemp					
30106	Boiler11SupplyTemp					
30107	Boiler12SupplyTemp					
30108	Boiler13SupplyTemp					
30109	Boiler14SupplyTemp					
30110	Boiler15SupplyTemp					
30111	Boiler16SupplyTemp					
30112	Boiler01ReturnTemp	16 bit signed	0.01		32 – 250 °F	
30113	Boiler02ReturnTemp			determine if the sensor is present.		
30114	Boiler03ReturnTemp			Boiler01 = Master or "Connected Boiler" Boiler02 = Member01 Boiler16 = Member15		
30115	Boiler04ReturnTemp					
30116	Boiler05ReturnTemp					
30117	Boiler06ReturnTemp					
30118	Boiler07ReturnTemp					
30119	Boiler08ReturnTemp					
30120	Boiler09ReturnTemp					
30121	Boiler10ReturnTemp					
30122	Boiler11ReturnTemp					
30123	Boiler12ReturnTemp					
30124	Boiler13ReturnTemp					

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Address	Name	Raw Data Type	Scale	Description	Valid Values/Range
30125	Boiler14ReturnTemp				
30126	Boiler15ReturnTemp				
30127	Boiler16ReturnTemp	-			
30128	Boiler01CyclesHigh16	16 bit unsigned		Boiler (1 – 16) Cycles High (Upper) and Low (Lower) 16 bit counters. To	0 – 4294967295
30129	Boiler01CyclesLow16			get the actual cycle count for any given boiler (##), the high and low 16 bit counters must be combined (concatenated) into a single 32 bit counter as:	
30130	Boiler02CyclesHigh16	-		Boiler##CyclesHigh16:Boiler##CyclesLow16	
30131	Boiler02CyclesLow16	-			
30132	Boiler03CyclesHigh16	-		Example Boiler01Cycles = (Boiler01CyclesHigh16 * 65536) + Boiler01CyclesLow16	
30133	Boiler03CyclesLow16	-		Boiler01 = Master or "Connected Boiler"	
30134	Boiler04CyclesHigh16	-	Boile	Boiler02 = Member01 Boiler16 = Member15	
30135	Boiler04CyclesLow16	_			
30136	Boiler05CyclesHigh16	-			
30137	Boiler05CyclesLow16	-			
30138	Boiler06CyclesHigh16	-			
30139	Boiler06CyclesLow16	-			
30140	Boiler07CyclesHigh16	-			
30141	Boiler07CyclesLow16				
30142	Boiler08CyclesHigh16	-			
30143	Boiler08CyclesLow16	-			
30144	Boiler09CyclesHigh16				
30145	Boiler09CyclesLow16	-			
30146	Boiler10CyclesHigh16				
30147	Boiler10CyclesLow16	1			
30148	Boiler11CyclesHigh16	1			
30149	Boiler11CyclesLow16	1			
30150	Boiler12CyclesHigh16	1			

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Address	Name	Raw Data Type	Scale	Description	Valid Values/Range
30151	Boiler12CyclesLow16				
30152	Boiler13CyclesHigh16				
30153	Boiler13CyclesLow16	-			
30154	Boiler14CyclesHigh16	-			
30155	Boiler14CyclesLow16	-			
30156	Boiler15CyclesHigh16	-			
30157	Boiler15CyclesLow16	-			
30158	Boiler16CyclesHigh16	-			
30159	Boiler16CyclesLow16	-			
30160	Boiler01Status4	16 bit unsigned		Boiler (1 – 16) status4 flags. These bits indicate the state of various boiler statuses.  Boiler01 = Master or "Connected Boiler" Boiler02 = Member01 Boiler16 = Member15	See the BoilerStatus4 Flags in Appendix A.
30161	Boiler02Status4	-			
30162	Boiler03Status4	-			
30163	Boiler04Status4	-			
30164	Boiler05Status4	-	Boiler16		
30165	Boiler06Status4	-			
30166	Boiler07Status4	-			
30167	Boiler08Status4	-			
30168	Boiler09Status4	-			
30169	Boiler10Status4	-			
30170	Boiler11Status4	-			
30171	Boiler12Status4				
30172	Boiler13Status4				
30173	Boiler14Status4				
30174	Boiler15Status4				
30175	Boiler16Status4				

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Address	Name	Raw Data Type	Scale	Description	Valid Values/Range
30176	RESERVED				
30207					
30208	Boiler01DHWTemp	16 bit signed		Boiler (1 – 16) DHW temperature (if available). See BoilerStatus4 to	32 – 250 °F
30209	Boiler02DHWTemp			determine if the sensor is present.	
30210	Boiler03DHWTemp			Boiler01 = Master or "Connected Boiler" Boiler02 = Member01	
30211	Boiler04DHWTemp				
30212	Boiler05DHWTemp			Boiler16 = Member15	
30213	Boiler06DHWTemp				
30214	Boiler07DHWTemp				
30215	Boiler08DHWTemp				
30216	Boiler19DHWTemp				
30217	Boiler10DHWTemp				
30218	Boiler11DHWTemp				
30219	Boiler12DHWTemp				
30220	Boiler13DHWTemp				
30221	Boiler14DHWTemp				
30222	Boiler15DHWTemp				
30223	Boiler16DHWTemp				
30224	Boiler01Modulation	16 bit signed		The running ("display") modulation. This is typically the actual running	0 - 100
30225	Boiler02Modulation			modulation except under special circumstances when the boiler is running in a self-protection mode (Op. Limit, ½ Fire Rate, etc.)	
30226	Boiler03Modulation			Boiler01 = Master or "Connected Boiler"	
30227	Boiler04Modulation			Boiler02 = Member01	
30228	Boiler05Modulation			 Boiler16 = Member15	
30229	Boiler06Modulation				
30230	Boiler07Modulation				
30231	Boiler08Modulation				

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Address	Name	Raw Data Type	Scale	Description	Valid Values/Range
30232	Boiler09Modulation				
30233	Boiler10Modulation				
30234	Boiler11Modulation				
30235	Boiler12Modulation				
30236	Boiler13Modulation				
30237	Boiler14Modulation				
30238	Boiler15Modulation				
30239	Boiler16Modulation				
30240	OperatingSetpoint	16 bit signed		This is the current operating or active setpoint. It may be: 1) The normal heating setpoint. 2) The DHW setpoint if running in DHW mode. 3) A calculated setpoint if running in Outdoor Air Reset Mode 4) The 4-20ma (0-10V) setpoint.	40 - 220 °F
30241	AvailableBoilers	16 bit unsigned		The maximum number of boilers available to fire.	0 – 16
		TI	ne following	values are available on firmware versions 2.00+	
30242	SystemBTUHHigh16	32 bit unsigned		System BTUH High (Upper) and Low (Lower) 16 bit registers. To get the	0 – 100,000,000 BTUH
30243	SystemBTUHLow16			actual BTUH, the high and low 16 bit registers must be combined (concatenated) into a single 32 bit counter as:  BTUHHigh16: BTUHLow16  Example BTUH = (BTUHHigh16 * 65536) + BTUHLow16  NOTE: This is only an estimated value due to sensor tolerances (temperature, flow) and the actual BTU content in 1 cubic foot of gas.	
30247	SystemReturnTemp	16 bit signed		The system return temperature (if available). See BoilerStatus4 to determine if the sensor is present.	
30261	AddBoilerDelayTimer	16 bit signed		The Add Boiler Delay timer – number of seconds left before another boiler is started (if available and needed).	0 – 3600 seconds
30262	ShedBoilerDelayTimer	16 bit signed		The Shed Boiler Delay timer – number of seconds left before another boiler is stopped (if needed).	0 – 900 seconds

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8 bit unsigned

30271

ManualBoilersOn

Address	Name	Raw Data Type	Scale	Description	Valid Values/Range
30265	SystemFlowHigh16	32 bit unsigned	0.01	Boiler SystemFlow High (Upper) and Low (Lower) 16 bit registers. To get	0-1500 GPM
30266	SystemFlowLow16			the actual SystemFlow, the high and low 16 bit registers must be combined (concatenated) into a single 32 bit counter as:	
				SystemFlowHigh16: SystemFlowLow16	
				Example SystemFlow = ((SystemFlowHigh16 * 65536) + SystemFlowLow16) * 0.01	
				This value is either the system flow meter reading or the value written to the BMSFlowRateGPM register by the BMS.	
30269	HeatingBoilersOn	8 bit unsigned		The number of boilers currently running for heating.	0 – 16
30270	DHWBoilersOn	8 bit unsigned		The number of boilers currently running for DHW.	0 – 16

AA/High Fire, etc.

The number of boilers currently running due to a local override, T1, T2,

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0 - 16

#### **APPENDIX A – Status Flags**

#### **BoilerStatus1 Flags**

Bit	Description	Valid Values/Range
0	Pilot Valve	0 = closed, 1 = open
1	Blower Running	0 = off, 1 = on (running)
2	Ignition Alarm	0 = ok, 1 = alarm
3	IRI Alarm	0 = ok, 1 = alarm
4	High Limit	0 = ok, 1 = tripped
5	Air Prove Switch	0 = proven, 1 = not proven
6		
7	Software Operator Tripped	0 = not tripped, 1 = tripped
8	Header Sensor not detected	0 = detected, 1 = not detected
9	Supply Sensor not detected	0 = detected, 1 = not detected
10	Return Sensor not detected	0 = detected, 1 = not detected
11	Outside Sensor not detected	0 = detected, 1 = not detected
12	System Pump Running	0 = off, 1 = on (running)
13	Combustion Air Damper Prove	0 = not proven, 1 = proven
	Obsolete – Available only on revision 1.x controls.	
14	Master Boiler	0 = member, 1 = master
15	Boiler Detected	0 = not detected, 1 = detected
	A boiler was detected at this address.	

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#### **BoilerStatus2 Flags**

Bit	Description	Valid Values/Range
0	Disabled	0 = enabled, 1 = disabled
	The boiler is disabled. For instance, when minimum off time has not been met.	
1	Local Override (member boilers only)	0 = no override, 1 = override
	State of the local override (Heat Demand) input on member boilers.	
2	Alarm	0 = ok, 1 = alarm
	An alarm or warning condition has occurred. An attempt(s) will automatically be made to recover and resume normal operation.	
3	Failed	0 = ok, 1 = failed
	A condition has occurred under which the boiler can no longer run.	
4	Member Error	0 = ok, 1 = error
	An "Alarm" or "Failed" condition has occurred on one (or more) of the member boilers.	
5	Boiler Running	0 = off, 1 = running
6	Local Pump Running	0 = off, 1 = running
7	System Water Prove (Flow) Interlock.	0 = open, 1 = closed
	This input was previously called "Spare 3".	
8	LWCO Interlock (Low Water Cut Off)	0 = open, 1 = closed
9	VFD Interlock (Variable Frequency Drive)	0 = open, 1 = closed
10	Gas Prove Interlock	0 = open, 1 = closed
11	Spare 4 (User) Interlock	0 = open, 1 = closed
12	Operator Interlock	0 = open, 1 = closed
13	Local Water Prove (Flow) Interlock	0 = open, 1 = closed
14		
15	Main Valve	0 = closed, 1 = open

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#### **BoilerStatus3 Flags**

Bit	Description	Valid Values/Range
0	AA High Fire Input	0 = off, 1 = on
1	Heat Demand Input (Local Override)	0 = off, 1 = on (1)
2	4-20ma Remote Enable Input	0 = off, 1 = on
3	Outdoor Air Reset Override Input	0 = off, 1 = on
4	T1 Input	0 = off, 1 = on
5	T2 Input	0 = off, 1 = on
6	T3 Input	0 = off, 1 = on
7	T4 Input	0 = off, 1 = on
8		
9		
10		
11		
12		
13		
14		
15		

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#### **BoilerStatus4 Flags**

Bit	Description	Valid Values/Range
0	DHW Enabled (1)	0 = off, 1 = on (menu)
	DHW Mode had been enabled in the menus.	
1	Combustion Air Damper Prove (1)	0 = not proven, 1 = proven
	Status of Combustion Air Damper Prove Input J12B	
2	Call Service Fault (1)	0 = off, 1 = on
3	Air Switch (Blower) Fault (1)	0 = off, 1 = on
4		
5		
6		
7		
8		
9	DHW Sensor not detected (1)	0 = detected, 1 = not detected
10	DHW Boiler (1)	0 = no, 1 = yes (DHW jumper cut)
	This control board has been designated a DHW boiler by cutting the DHW jumper (JPS1).	
11	Operating Limit Clamp (1)	0 = off, 1 = clamped
	Boiler input is being limited (clamped) due to a high supply (outlet) temperature.	
12	Firing boilers limited by value in BMS Flow Rate Register	0 = not limited, 1 = limited
13	Firing boilers limited by value in BMS Limit Boilers Register	0 = not limited, 1 = limited
14	Stack Sensor not detected (1)	0 = detected, 1 = not detected
15	System Return Sensor not detected (1)	0 = detected, 1 = not detected

<sup>(1)</sup> Available in Firmware Version 2.00+.

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