PURE Steam Alarm Index

Information on "Alarm Info Screen"							
Alarm Index	Alarm Name	Alarm Screen Description	Alarm Screen Solution	Error Code	Error Diagnostic Code	Alarm Originator	Alarm Notes
0	No flame at the end of TSA	No flame at the end of TSA1		2	1	LMV	
1	No flame at the end of TSA	No flame at the end of TSA2		2	2	LMV	
2	No flame at the end of TSA	No flame at the end of TSA1 (SW version <=V02.00)		2	4	LMV	
3	Air pressure failure	Air pressure switch off		3	0	LMV	
4	Air pressure failure	Air pressure switch on		3	1	LMV	
5	Air pressure failure	Evaluation air pressure switch	Correct setting of parameter 235 or 335. (Deactivation of air pressure switch during operation only permitted for pneumatic operation!)	3	2	LMV	
6	Air pressure failure	Air pressure on? prevention of startup		3	4	LMV	
7	Air pressure failure	Air pressure, combustion pressure - prevention of startup		3	20	LMV	
8	Air pressure failure	Air pressure, POC - prevention of startup		3	68	LMV	
9	Air pressure failure	Air pressure, combustion pressure, POC - prevention of startup		3	84	LMV	
10	Extraneous light	Extraneous light during startup		4	0	LMV	
11	Extraneous light	Extraneous light during shutdown		4	1	LMV	
12	Extraneous light	Extraneous light during startup? prevention of startup		4	2	LMV	
13	Extraneous light	Extraneous light during startup, air pressure - prevention of startup		4	6	LMV	
14	Extraneous light	Extraneous light during startup, combustion pressure - prevention of startup		4	18	LMV	

15	Extraneous light	Extraneous light during startup, air pressure, combustion pressure - prevention of startup		4	22	LMV	
16	Extraneous light	Extraneous light during startup, POC - prevention of startup		4	66	LMV	
17	Extraneous light	Extraneous light during startup, air pressure, POC - prevention of startup		4	70	LMV	
18	Extraneous light	Extraneous light during startup, combustion pressure, POC - prevention of startup		4	82	LMV	
19	Extraneous light	Extraneous light during startup, air pressure, combustion pressure, POC -prevention of startup		4	86	LMV	
20	Loss of flame	Loss of flame		7	0	LMV	
21	Loss of flame	Loss of flame (sw-version <=V02.00)		7	3	LMV	
22	Loss of flame	Loss of flame through TUV test (flame failure test)		7	0	LMV	
23	Valve proving test	V1 leaking (V2 if valve proving via X5-01)	Check if the valve on the gas side is leaking. Check wiring and open-circuit. Note recommended measures for diagnostic code 1 for valve proving via X5-01 (pres. Switch-min gas).	12	0	LMV	
24	Valve proving test	V2 leaking (V1 if valve proving via X5-01)	Check if the valve on the burner side is leaking. Check if pressure switch for the leakage test is closed when there is gas pressure. Check wiring and short-circuit. Note recommended measures for diagnostic code 0 for valve proving via X5-01.	12	1	LMV	
25	Valve proving test	No valve proving possible	Valve proving activated, but pressure switch-min is selected as an input function	12	2	LMV	

			for X9-04 (check parameter LMV 238 and 241)				
26	Valve proving test	No valve proving possible	Valve proving activated, but no input selected (check parameter 236 and 237)	12	3	LMV	
27	Valve proving test	No valve proving possible	Valve proving activated, but 2 inputs selected (set parameter 237 to PSmax or POC)	12	4	LMV	
28	Valve proving test	No valve proving possible	Valve proving activated, but 2 inputs selected (check parameter 236 and 237)	12	5	LMV	
29	Valve proving test	V1 leaking	Check if the valve on the gas side is leaking. Check wiring and open-circuit.	12	81	LMV	
30	Valve proving test	V2 leaking	Check if the valve on the burner side is leaking. Check if pressure switch for the leakage test is closed when there is gas pressure. Check wiring and short-circuit.	12	83	LMV	
31	POC	POC open	Check if the valve's closing contact is closed.	14	0	LMV	
32	POC	POC closed	Check wiring. Check if the valve's closing contact opens when valve is controlled.	14	1	LMV	
33	POC	POC open - prevention of startup	Check wiring and open-circuit. Check if the valve's closing contact is closed.	14	64	LMV	
34	Air pressure failure	Air pressure switch off	Check parameter setting 671 Air pressure switch (X5-02) must be HIGH above parameterized on-level (speed)	18	0	LMV	
35	Air pressure failure	Air pressure switch on	Check parameter setting 670 Air pressure switch (X5-02) must be LOW below parameterized off-level (speed)	18	1	LMV	
36	Air pressure failure	invalid parameterization	Check the setting of the speed threshold (ParNo 671 > 670)	18	128	LMV	
37	Combustion Pressure Switch	No min. combustion pressure	Check wiring and open-circuit.	19	0	LMV	
38	Combustion Pressure Switch	Combustion pressure not permitted	Check if pressure switch is closed without combustion pressure. Check wiring and short-circuit.	19	1	LMV	

39	Combustion Pressure Switch	Combustion pressure - prevention of startup	Check if pressure switch is closed without combustion pressure. Check wiring and short-circuit.	19	16	LMV	
40	Combustion Pressure Switch	Combustion pressure, POC - prevention of startup	Check if pressure switch is closed without combustion pressure. Check wiring and short-circuit.	19	80	LMV	
41	Pmin:	No min. gas / oil pressure	Check wiring and open-circuit.	20	0	LMV	
42	Pmin:	Lack of gas - prevention of startup	Check wiring and open-circuit.	20	1	LMV	
43	Pmax / POC	Pmax: Max. gas / oil pressure exceeded POC: POC open (sw-version<=V02.00)	Check wiring and open-circuit. POC: Check if the valve's closing contact is closed.	21	0	LMV	
44	Pmax / POC	POC closed (sw-version <=V02.00)	Check wiring. Check if the valve's closing contact opens when valve is controlled.	21	1	LMV	
45	Pmax / POC	POC open - prevention of startup (SW version <=V02.00)	Check wiring and open-circuit. Check if the valve's closing contact is closed.	21	64	LMV	
46	Safety loop / burner flange	Safety loop / burner flange open		22	0	LMV or PLC	The PLC has an interlock to the LMV via the burner flange input. If this input is opened it can create this alarm as well as the actual safety loop opening.
47	Safety loop / burner flange	Safety loop / burner flange open - prevention of startup		22	1	LMV or PLC	
48	Safety loop / burner flange	Safety loop / burner flange, extraneous light - prevention of startup		22	3	LMV	
49	Safety loop / burner flange	Safety loop / burner flange, air pressure - prevention of startup		22	5	LMV	
50	Safety loop / burner flange	Safety loop / burner flange, combustion pressure - prevention of startup		22	17	LMV	
51	Safety loop / burner flange	Safety loop / burner flange, extraneous light, combustion pressure - prevention of startup		22	19	LMV	
52	Safety loop / burner flange	Safety loop / burner flange, air pressure,		22	21	LMV	

		combustion pressure - prevention of startup					
52	Safety loop / burner flange	Safety loop / burner flange, air pressure, combustion pressure - prevention of startup		22	21	LMV	
53	Safety loop / burner flange	Safety loop / burner flange, extraneous light, air pressure, combustion pressure - prevention of startup		22	23	LMV	
54	Safety loop / burner flange	Safety loop / burner flange, POC - prevention of startup		22	65	LMV	
55	Safety loop / burner flange	Safety loop / burner flange, extraneous light, POC - prevention of startup		22	67	LMV	
56	Safety loop / burner flange	Safety loop / burner flange, air pressure, POC - prevention of startup		22	69	LMV	
57	Safety loop / burner flange	Safety loop / burner flange, extraneous light, air pressure, POC - prevention of startup		22	71	LMV	
58	Safety loop / burner flange	Safety loop / burner flange, combustion pressure, POC - prevention of startup		22	81	LMV	
59	Safety loop / burner flange	Safety loop / burner flange, extraneous light, combustion pressure, POC - prevention of startup		22	83	LMV	
60	Safety loop / burner flange	Safety loop / burner flange, air pressure, combustion pressure, POC - prevention of startup		22	85	LMV	
61	Safety loop / burner flange	Safety loop / burner flange, extraneous light, air pressure,		22	87	LMV	

		combustion pressure, POC - prevention of startup					
62	Pmin Gas / Heavy oil	No min. gas pressure	Check wiring and open-circuit. (X5-01)	23	0	LMV	
63	Pmin Gas / Heavy oil	Lack of gas - prevention of startup	Check wiring and open-circuit. (X5-01)	23	1	LMV	
64	Pmin Gas / Heavy oil	Heavy oil direct start	Check wiring and open-circuit. (X9-04) Check oil pre heating.	23	2	LMV	
65	Internal error	Internal error	Make a reset; if error occurs repeatedly, replace the unit	50	0	LMV	
66	Internal error	Internal error	Make a reset; if error occurs repeatedly, replace the unit	51	0	LMV	
67	Internal error	Internal error	Make a reset; if error occurs repeatedly, replace the unit	55	0	LMV	
68	Internal error	Internal error	Make a reset; if error occurs repeatedly, replace the unit	56	0	LMV	
69	Internal error	Internal error	Make a reset; if error occurs repeatedly, replace the unit	57	0	LMV	
70	Internal error	Internal error	Make a reset; if error occurs repeatedly, replace the unit	58	0	LMV	
71	No valid load controller	Analog load invalid - prevention of startup	1. Check wiring and open-circuit. 2. LMV36.520A1: When trim function is activated (ParNo 530), the default load for interrupted communication to building automation (ParNo 148 / 149) must not be set to invalid.	60	1	LMV	
72	No valid load controller	Analog load invalid - default minload	1. Check wiring and open-circuit. 2. LMV36.520A1: When trim function is activated (ParNo 530), the default load for interrupted communication to building automation (ParNo 148 / 149) must not be set to invalid.	60	2	LMV	
73	Fuel Change	Fuel 0	no error - change to fuel 0	61	0	LMV	
74	Fuel Change	Fuel 1	no error - change to fuel 1	61	1	LMV	
75	Fuel Error	invalid fuel signals (Fuel 0+1 = 0)	Check wiring and open-circuit. Check polarity of AGM60 supply. Hint: no curve setting possible	62	0	LMV	
76	Fuel Error	different fuel choice between the ?Cs	Make a reset; if error occurs repeatedly, replace the unit	62	1	LMV	

77	Fuel Error	different fuel signals between the ?Cs	Make a reset; if error occurs repeatedly, replace the unit	62	2	LMV	
78	Fuel Error	invalid fuel signals (Fuel 0+1 = 1)	Check wiring and short-circuit. Hint: no curve setting possible LMV26: possibly operation of reset button >= 3s	62	3	LMV	
79	Internal Error	Internal Error	Make a reset; if error occurs repeatedly, replace the unit	65	0	LMV	
80	Internal Error	Internal Error	Make a reset; if error occurs repeatedly, replace the unit	66	0	LMV	
81	Internal Error	Internal Error	Make a reset; if error occurs repeatedly, replace the unit	67	0	LMV	
82	Fuel / air control	Load invalid	No valid load	70	23	LMV	
83	Fuel / air control	Curve points undefined	Adjust the curve points for all actuators	70	26	LMV	
84	Special position undefined	No-load position	Parameterize the no-load position for all actuators used	71	0	LMV	
85	Special position undefined	Postpurge position	Parameterize the postpurge position for all actuators used	71	1	LMV	
86	Special position undefined	Prepurge position	Parameterize the prepurge position for all actuators used	71	2	LMV	
87	Special position undefined	Ignition position	Parameterize the ignition position for all actuators used	71	3	LMV	
88	Fuel / air control	Internal error fuel / air control	Make a reset; if error occurs repeatedly, replace the unit	72	0	LMV	
89	Fuel / air control	load invalid	No valid load	73	23	LMV	
90	Fuel / air control	curve points undefined	Adjust the curve points for all actuators	73	26	LMV	
91	Fuel / air control	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		75	0	LMV	
92	Fuel / air control	Internal error fuel / air control	Make a reset; if error occurs repeatedly, replace the unit	76	0	LMV	
93	Range limitation of VSD	Control range limitation at the bottom	VSD speed was too high	80	1	LMV	
94	Range limitation of VSD	Control range limitation at the top	VSD speed was too low	80	2	LMV	
95	Interrupt speed input	Interrupt limitation speed input	Too much electromagnetic interference on the sensor line improve EMC	81	1	LMV	

96	Error during standardization	Timeout of standardization (VSD ramp down time too long)	Timeout at the end of standardization during ramp down of the VSD 1. Ramp time settings of the VSD are not shorter than those of the basic unit (parameter: 523)	82	1	LMV	
97	Error during standardization	Storage of standardized speed not successful	Error during storage of the standardized speed lock the basic unit, then reset it and repeat the standardization	82	2	LMV	
98	Error during standardization	Open-circuit speed sensor	Basic unit receives no pulses from the speed sensor: 1. Motor does not turn. 2. Speed sensor is not connected. 3. Speed sensor is not activated by the sensor disk (check distance)	82	3	LMV	
99	Error during standardization	Speed variation / VSD ramp up time too long / speed below minimum limit for standardization	Motor has not reached a stable speed after ramp up. Check parameters 522, 523, and 645	82	4	LMV	
100	Error during standardization	Wrong direction of rotation	Motors direction of rotation is wrong. 1. Motor turns indeed in the wrong direction, change parameterization of the direction of rotation or interchange 2 live conductors. 2. Sensor disk is fitted the wrong way, turn the sensor disk.	82	5	LMV	
101	Error during standardization	Implausible speed sensor signals	The required pulse pattern (60? 120? 180?) has not been correctly identified. 1. Check distance and mounting of speed sensor 2. Electromagnetic interference on the sensor lines check cable routing, improve EMC	82	6	LMV	
102	Error during standardization	Invalid standardized speed	The standardized speed measured does not lie in the permissible range. 1. Motor turns too slowly or too fast.	82	7	LMV	
103	Error during standardization	Deviation of standardized speed between ?C1+2	The speeds of microcomputer 1 and 2 deviated too much. This can be caused by wrong	82	15	LMV	

			standardized speeds (e.g. after restoring a data set to a new unit), repeat standardization and check the air-fuel ratio control				
104	Error during standardization	Wrong phase of phase manager	Standardization was made in a wrong phase. Permitted are only phases? 12, controller OFF, start standardization again	82	20	LMV	
105	Error during standardization	Safety loop / burner flange open	Safety loop or burner flange is open, repeat standardization with safety loop closed	82	21	LMV	
106	Error during standardization	VSD deactivated	Standardization was started with VSD deactivated, activate the VSD and repeat standardization	82	22	LMV	
107	Error during standardization	VSD deactivated	Standardization was started with VSD deactivated, activate the VSD and repeat standardization	82	23	LMV	
108	Error during standardization	No valid operation mode	Standardization was started without valid operation mode, activate valid operation mode and repeat standardization	82	24	LMV	
109	Error during standardization	pneumatic operation	Standardization was started with pneumatic operation, Standardization with pneumatic operation not possible. Note: If a speed monitoring is required in pneumatic systems, the appropriate parameters (ParNo 667...669) must be set before standardization.	82	25	LMV	
110	Error during standardization	Running command with no preceding standardization	VSD is controlled but not standardized, make standardization	82	128	LMV	
111	Error during standardization	No standardized speed available	Motor turns but is not standardized, make standardization	82	255	LMV	
112	Speed error VSD	Please contact your representative for information regarding this alarm, be sure to		83	0	LMV	

		provide the LMV alarm code and diagnostic code.					
113	Curve slope actuators	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		84	0	LMV	
114	Referencing error actuators	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		85	0	LMV	
115	Error fuel actuator	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		86	0	LMV	
116	Error air actuator	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		87	0	LMV	
117	Internal error burner control	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		90	0	LMV	
118	Internal error burner control	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		91	0	LMV	

119	Error flame signal acquisition	Short-circuit of sensor	Short-circuit at QRB? 1. Check wiring. 2. Flame detector possibly fault.	93	0	LMV	
120	Error relay supervision	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		95	0	LMV	
121	Error relay supervision	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		96	0	LMV	
122	Error relay supervision	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		97	0	LMV	
123	Error relay supervision	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		98	0	LMV	
124	Internal error relay control	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		99	0	LMV	
125	Internal error relay control	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		100	0	LMV	

126	Internal error contact	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		105	0	LMV	
127	Internal error contact	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		106	0	LMV	
128	Internal error contact	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		107	0	LMV	
129	Internal error contact	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		108	0	LMV	
130	Internal error voltage	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		110	0	LMV	
131	Power supply undervoltage	Power supply undervoltage	Mains voltage to low Conversion factor diagnostic code -> mains voltage (230V: 1,683; 120V: 0,843)	111	0	LMV	
132	Mains voltage recovery	Mains voltage recovery	Error code for triggering a reset on power restoration (no error)	112	0	LMV	
133	Internal error	Internal error mains voltage supervision	Make a reset; if error occurs repeatedly, replace the unit	113	0	LMV	

134	Internal error	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		115	0	LMV	
135	Internal Error	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		116	0	LMV	
136	Internal Error	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		117	0	LMV	
137	Interrupt fuel counter input	Interrupt limitation fuel counter input	Too many disturbance pulses at the fuel meters input. Improve EMC	120	0	LMV	
138	Internal error EEPROM access	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		121	0	LMV	
139	Restore	Restore started	Restore of a backup has been started (no error) After restore on a new device unlocking is required!	136	1	LMV	
140	Modbus Timeout	Modbus timeout		146	1	LMV	
141	eBus Timeout	eBus timeout		146	2	LMV	
142	Flame failure test	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		150	0	LMV	
143	Trim function Error	Start prevention	1. Check wiring of analog trim setting for an open / loose	154	1	LMV	

			contact 2. Check the process data of the read trim specification (ParNo 916; 4mA = -15% / 12 mA = 0% / 20 mA = 15%)				
144	Trim function Error	Warning (Trim function temporarily disabled)	1. Check wiring of analog trim setting for an open / loose contact 2. Check the process data of the read trim specification (ParNo 916; 4mA = -15% / 12 mA = 0% / 20 mA = 15%)	154	2	LMV	
145	Trim function Error	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		155	0	LMV	
146	Trim function Error	Lower limit trim function	Warning: trim function is too long in limiting (ParNo 535; 916 < 531 or 916 > 532) This may be an indication of an incorrect setting of the trim function or VSD / PWM blower curve.	156	0	LMV	
147	Trim function Error	Upper limit trim function	Warning: trim function is too long in limiting (ParNo 535; 916 < 531 or 916 > 532) This may be an indication of an incorrect setting of the trim function or VSD / PWM blower curve.	156	1	LMV	
148	Trim function Error	Fuel1: Lower limit trim function	Warning: trim function is too long in limiting (ParNo 535; 916 < 531 or 916 > 532) This may be an indication of an incorrect setting of the trim function or VSD / PWM blower curve.	156	10	LMV	
149	Trim function Error	Fuel1: Upper limit trim function	Warning: trim function is too long in limiting (ParNo 535; 916 < 531 or 916 > 532) This may be an indication of an incorrect setting of the trim	156	11	LMV	

			function or VSD / PWM blower curve.				
150	Trim function Error	Analog value Standby	1. Check whether a current setting of 12 mA is available in standby 2. Check parameters 916 (permissible value range -1%...+1%)	157	0	LMV	
151	Trim function Error	Analog value preventilation	1. Check whether a current setting of 4 mA is available in standby 2. Check parameters 916 (permissible value range -16%...-14%)	157	1	LMV	
152	Internal error	Internal error		165	0	LMV	
153	Internal error	Internal error watchdog reset		166	0	LMV	
154	Manual locking	Manual locking by contact	Unit has been manually locked (no error)	167	1	LMV	
155	Manual locking	Manual locking by AZL2?	Unit has been manually locked (no error)	167	2	LMV	
156	Manual locking	Manual locking by PC tool	Unit has been manually locked (no error)	167	3	LMV	
157	Manual locking	Manual locking by AZL2? timeout / communication breakdown	During a curve adjustment via the AZL2..., the timeout for menu operation has elapsed (setting via parameter 127), or communication between the LMV... and the AZL2...has broken down	167	8	LMV	
158	Manual locking	Manual locking by PC tool communication breakdown	During a curve adjustment via the ACS410, communication between the LMV... and the ACS410 was interrupted for more than 30 seconds	167	9	LMV	
159	Manual locking	Manual locking after PC tool reset attempt	PC tool made a reset attempt although the system worked correctly	167	33	LMV	
160	Internal error	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		168	0	LMV	
161	Internal error	Please contact your representative for information regarding		169	0	LMV	

		this alarm, be sure to provide the LMV alarm code and diagnostic code.					
162	Internal error	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		170	0	LMV	
163	Internal error	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		171	0	LMV	
164	Prevention of startup	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		201	0	LMV	
165	Internal error	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		202	0	LMV	
166	Internal error	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		203	0	LMV	
167	Program stop	Program stop	Program stop is active (no error)	204	0	LMV	
168	Internal Error	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm		205	0	LMV	

		code and diagnostic code.					
169	Alarm Outside Parameters	Please contact your representative for information regarding this alarm, be sure to provide the LMV alarm code and diagnostic code.		0	0	LMV or PLC	This is a catch-all alarm that is thrown when an alarm is triggered however there is no index found to match the alarm. Ultimately this should not happen.
170	PLC Limit Trip: HLPC	The PLC has automatically stopped the boiler because the High Limit Pressure Control has tripped indicating a high-Pressure limit has been reached.	This is a manual reset device.	1001	0	PLC	
171	O2 Out of Range	The O2 was out of the allowable range.	Check O2 sensor operation.	1002	0	PLC	
172	PLC Limit Trip: Secondary LW	The PLC has automatically stopped the boiler because the Second Low Water Relay has reported a low water condition.		1003	0	PLC	
173	PLC Limit Trip: OPC	The PLC has automatically stopped the boiler because the Operating Pressure Control has tripped indicating a high-Pressure limit has been reached.	This is an automatically resetting device.	1004	0	PLC	
174	Draft Failed End Switch Test	The draft control failed to make the end switch within the given timeframe.	Please check the damper operation.	1005	0	PLC	
175	PLC Limit Trip: Auxiliary LW	The PLC has automatically stopped the boiler because the Auxiliary Low Water Relay has reported a low water condition.		1006	0	PLC	
176	PLC Limit Trip: Air Filter SW	The air filter switch has reported that the filter is likely plugged.	Check filter and replace as necessary.	1007	0	PLC	

177	PLC Limit Trip: Air Filter SW	The PLC has reported that the air filter switch did not change states as expected.	Check air filter switch to ensure proper functionality.	1008	0	PLC	
178	Pressure Sensor Failure	The boiler pressure sensor has failed.	Check the sensor operation.	1009	0	PLC	
179	Power Failure Recovery	Power was interrupted and was restored.		1010	0	PLC	Just a warning about power loss
180	PLC Limit Trip: Cyclone SW	The filter sensor on the cyclone has reported an error	Check cycone operation	1011	0	PLC	
181	BMS Communication Failure	Communication to the BMS failed.		1012	0	PLC	
182	LMV Communication Failure	Communication to the LMV failed.		1013	0	PLC	
183	VFD Communication Failure	Communication to the VFD failed.		1014	0	PLC	
184	O2 Communication Failure	Communication to the O2 Board failed.		1015	0	PLC	
185	Boiler Water Sensor Failure	The water temperature RTD has failed.		1016	0	PLC	
186	Feedwater Sensor Failure	The feedwater temperature RTD has failed.		1017	0	PLC	
187	Combustion Air Sensor Failure	The combustion air temperature RTD has failed. This is a required RTD, the boiler will not be allowed to restart without it.		1018	0	PLC	
188	Exhaust Sensor Failure	The exhaust temperature RTD has failed. This is a required RTD, the boiler will not be allowed to restart without it.		1019	0	PLC	
189	System Supply Sensor Failure	The system supply sensor has failed. Boilers in the Lead/Lag network will revert to		1020	0	PLC	

		their local controls until fixed.					
190	4-20 BMS Signal Failure		Check O2 sensor operation.	1021	0	PLC	
191	PLC Battery Low	Replace PLC Battery Soon. Battery Model: CR2032 3Volt.		1022	0	PLC	
192	PLC Batter Dead or Missing	The PLC Battery has either died or been removed. The Battery is required for proper functionality. Replace battery with CR2032 3Volt.		1023	0	PLC	
193	Boiler Pressure Sensor Failure			1024	0	PLC	
194	Water Level Sensor Failure			1025	0	PLC	
195	Stack Temperature Above Limit	The stack temperature has exceeded the warning limit	Check boiler venting for proper functionality and ensure the venting has not sooted up.	1026	0	PLC	
196	Stack Temperature Above 700.0	The stack temperature exceeded 700.0 degrees and has shut down the boiler.	Check boiler venting for proper functionality and ensure the venting has not sooted up.	1027	0	PLC	
197	Header PSI Sensor Disconnected	The system has concluded that header Psi sensor is not connected	Check header Psi sensor wiring	1028	0	PLC	
198	Boiler PSI Sensor Disconnected	The system has concluded that boiler Psi sensor is not connected	Check boiler Psi sensor wiring	1029	0	PLC	
199	High Water Condition	Water within the system has reached the threshold defined by the high water probe.		1030	0	PLC	