THERMO KING

Truck, Trailer, CryoTech and DAS alarm codes

Ingersoll Rand

This document shows all current truck, trailer, CryoTech and DAS alarm codes. Not all codes are possible on all units.
If the alarm applies to a multi-temp zone, that zone will be identified.
Be sure to record all alarms that occur. They are valuable to the service technician.

Color code definitions

OK TO RUN	CHECK AS SPECIFIED	TAKE IMMEDIATE ACTION

These are suggestions only. Always consult your company for final decisions.

	DESCRIPTION	OPERATOR ACTION
00	No Alarms Exist	No action required.
02	Check Evaporator Coil Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
03	Check (Control) Return Air Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
04	Check (Control) Discharge Air Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
05	Check Ambient Temp Sensor	Report alarm at end of day.
06	Check Coolant Temp Sensor	Report alarm at end of day.
07	Check Engine RPM Sensor	Report alarm at end of day.
08	Unit Running on Coil Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
09	High Evaporator Temperature (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
10	High Discharge Pressure (or Temperature)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
11	Unit or Zone Controlling on Alternate Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
12	Sensor or Digital Input Shutdown (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
13	Sensor Check (Zone)	Manually monitor temperature. Report alarm at end of day.
14	Defrost Terminated by Time	Report alarm at end of day.
15	Check Glow Plugs or Intake Air Heater	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
16	Manual Start Not Completed	Report alarm at end of day.
17	Engine Failed to Crank	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
18	High Engine Coolant Temperature	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
19	Low Engine Oil Pressure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
20	Engine (Vapor Motor CryoTech) Failed to Start	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
21	Cooling Cycle Check (Zone)	Manually monitor temperature. Report alarm at end of day.
22	Heating Cycle Check (Zone)	Manually monitor temperature. Report alarm at end of day.
23	Cooling Cycle Fault (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
24	Heating Cycle Fault (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
25	Alternator Check	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
26	Check Refrigeration Capacity (Zone)	Manually monitor temperature. Report alarm at end of day.
27	Vapor Motor RPM High (CryoTech)	Unit cannot operate and is shut down. Repair immediately.
28	Pretrip or Self Check Abort	Report alarm at end of day.
29	Defrost Damper Circuit Check (Zone)	Manually monitor temperature. Report alarm at end of day.
30	Defrost Damper Stuck Closed (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
31	Check Oil Pressure Switch	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
32	Refrigeration Capacity Low (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
33	Check Engine RPM	Report alarm at end of day.
34	Check Modulation Circuit	Manually monitor temperature. Report alarm at end of day.
35	Check Run Relay Circuit	Unit cannot operate and is shut down. Repair immediately.
36	Electric Motor Failed to Run	Unit cannot operate and is shut down. Repair immediately. Switch to Diesel Mode
37	Check Engine Coolant Level	Report alarm at end of day.
38	Electric Phase Reversed	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
39	Check Water Valve Circuit	Manually monitor temperature. Report alarm at end of day.
40	Check High Speed Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
41	Check Engine Coolant Temp	Report alarm at end of day.
42	Unit Forced to Low Speed	Report alarm at end of day.
43	Unit Forced to Low Speed Modulation	Report alarm at end of day.
44	Check Fuel System	Add fuel as necessary. Otherwise, report alarm at end of day.
45	Check Hot Gas or Hot Gas Bypass Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
46	Check Air Flow (Zone)	Manually monitor temperature. Report alarm at end of day.
47	Remote Sensor Shutdown	Unit/zone cannot operate and is shut down. Repair immediately.
48	Check Belts or Clutch	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
49	Check Spare Sensor 1	Report alarm at end of day.
50	Reset Clock	Report alarm at end of day.
51	Check Shutdown Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
52	Check Heat Circuit (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
53	Check Economizer Valve Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
54	Test Mode Timeout	Clear alarm and restart unit.
55	Check Engine Speeds	Report alarm at end of day.
56	Check Evaporator Fan Low Speed (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
57	Check Evaporator Fan High Speed (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
61	Low Battery Voltage	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
62	Ammeter Out of Calibration	Unit cannot operate and is shut down. Repair immediately
63	Engine or Vapor Motor Stopped	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
64	Pretrip Reminder	Report alarm at end of day.
65	Abnormal Temperature Differential (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
66	Low Engine Oil Level	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
67	Check Liquid Line Solenoid Circuit (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
68	Internal Controller Fault Code	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
70	Hourmeter Failure	Report alarm at end of day.
71	Hourmeter 4 Exceeds Set Time Limit	Report alarm at end of day.
72	Hourmeter 5 Exceeds Set Time Limit	Report alarm at end of day.
73	Hourmeter 6 Exceeds Set Time Limit	Report alarm at end of day.
74	Controller Reset to Defaults	Report alarm at end of day.
75	Controller RAM Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
76	Controller EPROM Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
77	Controller EPROM Checksum Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
78	Data Log EPROM Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
79	Internal Data Logger Overflow	Report alarm at end of day.
80	Check Compressor Temp Sensor	Report alarm at end of day.
81	High Compressor Temp	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
82	High Compressor Temp Shutdown	Unit cannot operate and is shut down. Repair immediately.
83	Low Engine Coolant Temp	Report alarm at end of day.
84	Restart Null	Report alarm at end of day. Another code may appear and clear automatically.
85	Forced Unit Operation	Report alarm at end of day.

Color code definitions

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	DESCRIPTION	OPERATOR ACTION
86	Check Discharge Pressure Sensor	Report alarm at end of day.
87	Check Suction Pressure Sensor	Report alarm at end of day.
88	Reserved for CryoTech	
89	Check Electronic Throttling Valve (ETV) Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
90	Electric Overload	Report alarm at end of day.
91	Check Electric Ready Input	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
92	Sensor Grades Not Set (Zone)	Report alarm at end of day.

93	Low Compressor Suction Pressure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
94	Check Loader #1 Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
95	Check Loader #2 Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
96	Low Fuel Level	Add fuel as required.
97	Failed Remote Return Air Sensor (CryoTech)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
98	Check Fuel Level Sensor	Report alarm at end of day.
99	High Compressor Pressure Ratio	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
100	Heater Fan Failure (CryoTech)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
101	Controlling on Evap Coil Outlet Temp (CryoTech)	Manually monitor temperature. Report alarm at end of day.
102	Low Evaporator Coil Temperature (CryoTech)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
103	Low Heater Fuel Level (CryoTech)	Manually monitor temperature. Report alarm at end of day.
104	Check Remote Fan Speed (Zone)	Manually monitor temperature. Report alarm at end of day.
105	Check Receiver Tank Press Sol Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.

106	Check Purge Valve Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
107	Check Condenser Inlet Sol Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
108	Door Open Timeout (Zone)	Close doors. Report alarm at end of day.
109	Check High Discharge Pressure Sensor	Replaced by Alarm Code 86
110	Check Suction Line Sol Circuit (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
111	Unit Not Configured Correctly (Zone)	Report alarm at end of day.
112	Check Remote Fans (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
113	Check Electric Heat Circuit (Zone)	Manually monitor temperature. Report alarm at end of day.
114	Multiple Alarms – Can Not Run (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
115	Check High Pressure Cut Out Switch	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
116	Check High Pressure Cut In Switch	Report alarm at end of day.
117	Auto Switch from Diesel to Electric	Normal operation – does not affect performance.
118	Auto Switch from Electric to Diesel	Normal operation – does not affect performance.

119	Reserved for CryoTech	
120	Check Alternator Excite Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
121	Check PMW Liquid Injection Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
122	Check Diesel/Electric Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
123	Check Evap Coil Inlet Temp Sensor (CryoTech)	Manually monitor temperature. Report alarm at end of day.
124	Check Evap Coil Outlet Temp Sensor (CryoTech)	Report alarm at end of day.
125	Check Tank Level Sensor (CryoTech)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
126	Check Back Pressure Regulator (CryoTech)	Manually monitor load temperature. Report this alarm at the end of the day.
127	Setpoint Not Entered (Zone)	Be sure setpoint is adjusted to required temperature.
128	Engine Run Time Maint Reminder #1	Report alarm at end of day.
129	Engine Run Time Maint Reminder #2	Report alarm at end of day.
130	Electric Run Time Maint Reminder #1	Report alarm at end of day.
131	Electric Run Time Maint Reminder #2	Report alarm at end of day.

132	Total Unit Run Time Maint Reminder #1	Report alarm at end of day.
133	Total Unit Run Time Maint Reminder #2	Report alarm at end of day.
134	Controller Power On Hours	Report alarm at end of day.
135	Check Spare Digital Inputs	Report alarm at end of day.
136	Check Spare Digital Outputs	Report alarm at end of day.
137	Check Damper Motor Heater Output	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
138	Log DAS Real Time Clock Battery Failure (DAS)	Report alarm at end of day.
139	Abort Evacuation Mode	Report alarm at end of day.
140	Not currently used	
141	Auto Switch Diesel to Electric Disabled	Report alarm at end of day.
142	Check Thermax Valve	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
143	Check Remote Drain Hose Heater Output (Zone)	Report alarm at end of day.
144	Lost CAN Communications to Expansion Module	Unit cannot operate and is shut down. Repair immediately.

145	Lost Controller ON Feedback Signal	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
146	Software Version Mismatch	Report alarm at end of day.
147	Check Multi-Temp Fan Speed Control Output (Zone)	Manually monitor load temperature. Report this alarm at the end of the day.
148	Auto Switch Electric to Diesel Disabled	Report alarm at end of day.
149	Alarm Not Identified	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
150	Sensor Out of Range Low (DAS and HMI) (Zone)	Report alarm at end of day.
151	Sensor Out of Range High (DAS and HMI) (Zone)	Report alarm at end of day.
152	DAS Failed Sensor (DAS)	Report alarm at end of day.
153	Expansion Module Flash Load Failure	Report alarm at end of day.
154	Low Suction Pressure Switch Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
155	Lost CAN Communications to HMI	Unit cannot operate and is shut down. Repair immediately.
156	Check Suction/Liquid Heat Exchanger Bypass Valve	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
157	OptiSet Plus Profile Mismatch	Report alarm at end of day.

158	Primary Software Failed to Load	Report alarm at end of day.
159	Check Battery Condition	Report alarm at end of day.
160	Lost CAN Communications to Radio Expansion Board	Report alarm at end of day.
161	Log DAS Real Time Clock Invalid (DAS)	Report alarm at end of day.
163	Emission Control Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
175	Check Electronic Expansion Valve (CryoTech)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
176	Check Evaporator Pressure Sensor (CryoTech)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
177	Check CO_2 Tank Pressure Sensor (CryoTech)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
178	Low CO_2 Fuel Level (CryoTech)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
180	TriPac Compressor Alarm	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
188	Log DAS Microprocessor Fault (DAS)	Report alarm at end of day.
203	Check Display Return Air Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
204	Check Display Discharge Air Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.

216	Check DAS Digital Inputs (DAS)	Report alarm at end of day.
233	REB Transitioning from Conservative to Full Null	Report alarm at end of day.
234	Check Relative Humidity Sensor Circuit	Report alarm at end of day.
250	DAS Clock Time Reset (DAS)	Report alarm at end of day.
251	Check Radio Expansion Board Configuration	Report alarm at end of day.
252	Check Auto Fresh Air Exchange Circuit	Report alarm at end of day.
253	Theft Deterrence	Report alarm at end of day.
254	Check Auxilary Coolant Temp Sensor	Report alarm at end of day.