THERMO KING TRUCK, TRAILER, CR AND DAS ALARM CODES

THIS DOCUMENT SHOWS ALL CURRENT TRUCK, TRAILER, CR 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.
ALARM CODE NUMBERS MARKED WITH PARTENTHESIS (XX) MAY EXIST WITH ALARM CODE 84 AND MAY CLEAR AUTOMATICALLY.

COLOR CODE DEFINITIONS	OK TO RUN	CHECK AS SPECIFIED	TAKE IMMEDIATE ACTION

THESE ARE SUGGESTIONS ONLY. ALWAYS CONSULT YOUR COMPANY FOR FINAL DECISIONS.

Num	Color	Description	Operator Action
00		No Alarms Exist	No action required.
02		Check Evaporator Coil Sensor	Manually monitor temperature. Report alarm at end of day.
03		Check (Control) Return Air Sensor	Manually monitor temperature. Report alarm at end of day.
04		Check (Control) Discharge Air Sensor	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	Manually monitor temperature. Report alarm at end of day.
(09)		High Evaporator Temperature	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
(10)		High Discharge Pressure (or Temperature)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
11		Unit or Zone Controlling on Alternate Sensor	Manually monitor temperature. Report alarm at end of day.
12		Sensor or Digital Input Shutdown	Unit/zone cannot operate and is shut down. Repair immediately.
13		Sensor Check	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/zone 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/zone is shut down repair immediately. Otherwise, report alarm at end of day.
(18)		High Engine Coolant Temperature	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
(19)		Low Engine Oil Pressure	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
(20)		Engine (Vapor Motor CR) Failed to Start	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
(21)		Cooling Cycle Check	Manually monitor temperature. Report alarm at end of day.
(22)		Heating Cycle Check	Manually monitor temperature. Report alarm at end of day.
23		Cooling Cycle Fault	Unit/zone cannot operate and is shut down. Repair immediately.
24		Heating Cycle Fault	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	Manually monitor temperature. Report alarm at end of day.
(27)		Vapor Motor RPM High (CR)	Unit/zone 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	Manually monitor temperature. Report alarm at end of day.
30		Defrost Damper Stuck Closed	Unit/zone cannot operate and is shut down. Repair immediately.
31		Check Oil Pressure Switch	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
32		Refrigeration Capacity Low	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/zone cannot operate and is shut down. Repair immediately.
(36)		Electric Motor Failed to Run	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
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.

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Num	Color	Description	Operator Action
40		Check High Speed Circuit	If unit/zone 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	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/zone 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	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.
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/zone cannot operate and is shut down. Repair immediately.
(63)		Engine or Vapor Motor Stopped	If unit/zone 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	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
66		Low Engine Oil Level	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
67		Check Liquid Line Solenoid Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
68		Internal Controller Fault Code	If unit/zone 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/zone is shut down repair immediately. Otherwise, report alarm at end of day.
76		Controller EPROM Failure	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
77		Controller EPROM Checksum Failure	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
78		Data Log EPROM Failure	If unit/zone 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/zone is shut down repair immediately. Otherwise, report alarm at end of day.
82		High Compressor Temp Shutdown	Unit/zone 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.
85		Forced Unit Operation	Report alarm at end of day.

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Num	Color	Description	Operator Action
86	green	Check Discharge Pressure Sensor	Report alarm at end of day.
87	green	Check Suction Pressure Sensor	Report alarm at end of day.
88		Reserved for CR	
89	yellow	Check Electronic Throttling Valve Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
90	red	Electric Overload	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
91	red	Check Electric Ready Input	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
92	red	Sensor Grades Not Set	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
93	red	Low Compressor Suction Pressure	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
94	yellow	Check Loader #1 Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
95	yellow	Check Loader #2 Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
96	yellow	Low Fuel Level	Add fuel as required.
97	red	Failed Remote Return Air Sensor (CR)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
98	yellow	Check Fuel Level Sensor	Report alarm at end of day.
99	red	High Compressor Pressure Ratio	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
(100)	yellow	Heater Fan Failure (CR)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
101	red	Controlling on Evap Coil Outlet Temp (CR)	Manually monitor temperature. Report alarm at end of day.
(102)	red	Low Evaporator Coil Temperature (CR)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
103	yellow	Low Heater Fuel Level (CR)	Manually monitor temperature. Report alarm at end of day.
104	yellow	Check Remote Fan Speed	Manually monitor temperature. Report alarm at end of day.
105	yellow	Check Receiver Tank Press Sol Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
106	yellow	Check Purge Valve Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
107	yellow	Check Condenser Inlet Sol Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
108	yellow	Door Open Timeout	Close doors. Report alarm at end of day.
109	yellow	Check High Discharge Pressure Sensor	Replaced by Alarm Code 86
110	yellow	Check Suction Line Sol Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
111	green	Unit Not Configured Correctly	Report alarm at end of day.
112	yellow	Check Remote Fans	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
113	yellow	Check Electric Heat Circuit	Manually monitor temperature. Report alarm at end of day.
114	red	Multiple Alarms - Can Not Run	Unit/zone cannot operate and is shut down. Repair immediately.
115	yellow	Check High Pressure Cut Out Switch	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
116	green	Check High Pressure Cut In Switch	Report alarm at end of day.
117	green	Auto Switch from Diesel to Electric	Normal operation – does not affect performance.
118	green	Auto Switch from Electric to Diesel	Normal operation – does not affect performance.
119		Reserved for CR	
120	yellow	Check Alternator Excite Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
121	yellow	Check PMW Liquid Injection Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
122	yellow	Check Diesel/Electric Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
123	yellow	Check Evap Coil Inlet Temp Sensor (CR)	Manually monitor temperature. Report alarm at end of day.
124	green	Check Evap Coil Outlet Temp Sensor (CR)	Report alarm at end of day.
125	yellow	Check Tank Level Sensor (CR)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
126	yellow	Check Back Pressure Regulator (CR)	Manually monitor load temperature. Report this alarm at the end of the day.
127	yellow	Setpoint Not Entered	Be sure setpoint is adjusted to required temperature.
128	green	Engine Run Time Maint Reminder #1	Report alarm at end of day.
129	green	Engine Run Time Maint Reminder #2	Report alarm at end of day.
130	green	Electric Run Time Maint Reminder #1	Report alarm at end of day.

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Num	Color	Description	Operator Action
131	green	Electric Run Time Maint Reminder #2	Report alarm at end of day.
132	green	Total Unit Run Time Maint Reminder #1	Report alarm at end of day.
133	green	Total Unit Run Time Maint Reminder #2	Report alarm at end of day.
134	green	Controller Power On Hours	Report alarm at end of day.
135	green	Check Spare Digital Inputs	Report alarm at end of day.
136	green	Check Spare Digital Outputs	Report alarm at end of day.
137	yellow	Check Damper Motor Heater Output	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
138	green	Log DAS Real Time Clock Battery Failure (DAS)	Report alarm at end of day.
139	green	Abort Evacuation Mode	Report alarm at end of day.
140		Not currently used	
141	yellow	Auto Switch Diesel to Electric Disabled	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
142	yellow	Check Thermax Valve	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
143	green	Check Remote Zone Drain Hose Heater Output	Report alarm at end of day.
144	red	Lost CAN Communications to Expansion Module	Unit/zone cannot operate and is shut down. Repair immediately.
145	yellow	Lost Controller ON Feedback Signal	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
146	green	Software Version Mismatch	Report alarm at end of day.
147	yellow	Check Multi-Temp Fan Speed Control Output	Manually monitor load temperature. Report this alarm at the end of the day.
148	yellow	Auto Switch Electric to Diesel Disabled	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
149	yellow	Alarm Not Identified	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
150	green	Sensor Out of Range Low (DAS and HMI)	Report alarm at end of day.
151	green	Sensor Out of Range High (DAS and HMI)	Report alarm at end of day.
152	green	DAS Failed Sensor (DAS)	Report alarm at end of day.
153	green	Expansion Module Flash Load Failure	Report alarm at end of day.
154	yellow	Low Suction Pressure Switch Failure	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
155	red	Lost CAN Communications to HMI	Unit/zone cannot operate and is shut down. Repair immediately.
156	yellow	Check Suction/Liquid Heat Exchanger Bypass Valve	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
157	green	OptiSet Plus Profile Mismatch	Report alarm at end of day.
158	green	Primary Software Failed to Load	Report alarm at end of day.
159	green	Check Battery Condition	Report alarm at end of day.
160	green	Lost CAN Communications to Radio Expansion Board	Report alarm at end of day.
161	green	Log DAS Real Time Clock Invalid (DAS)	Report alarm at end of day.
188	yellow	Log DAS Microprocessor Fault (DAS)	Report alarm at end of day.
203	yellow	Check Display Return Air Sensor	Manually monitor temperature. Report alarm at end of day.
204	yellow	Check Display Discharge Air Sensor	Manually monitor temperature. Report alarm at end of day.
216	green	Check DAS Digital Inputs (DAS)	Report alarm at end of day.
234	green	Check Relative Humidity Sensor Circuit	Report alarm at end of day.
250	green	DAS Clock Time Reset (DAS)	Report alarm at end of day.
251	green	Check Radio Expansion Board Configuration	Report alarm at end of day.
252	yellow	Check Auto Fresh Air Exchange Circuit	Report alarm at end of day.