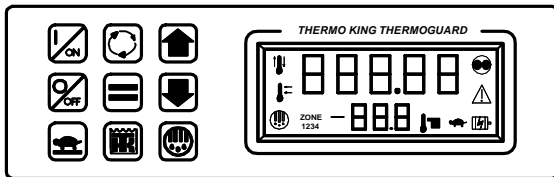


OPERATING THE THERMOGUARD μP-T MICROPROCESSOR



Truck Smart Reefer Units are operated by a Remote Control Panel. This panel may be located in the truck cab or mounted on the truck box.

Used on:

TD-II Smart Reefer Truck Units

RD-II Smart Reefer Truck Units

KD-II Smart Reefer Truck Units

MD-II Smart Reefer Truck Units

CHANGING THE SETPOINT

1. Press the On Key to turn the unit on.
2. Press the Up and Down Arrow keys to chose the new setpoint.
3. Press the Enter key. The display will briefly show [Lod], and then the new setpoint will reappear.

SELECTING CYCLE SENTRY OR CONTINUOUS MODE

1. Press the On Key to turn the unit on.
2. Press the Select key to display [CYCLS] and [YES] or [nO].
3. Press the Up or Down Arrow key to select the desired mode. [YES] = Cycle Sentry, [nO] = Continuous.
4. Press the Enter key. The display will briefly show [Lod], and then the new mode will reappear.

STARTING THE ENGINE

1. Press the On key to turn the unit on. If no other key is pressed, the engine will automatically preheat and start in about 10 seconds. **CAUTION:** The engine starts automatically in either Cycle Sentry or Continuous mode.

MANUAL DEFROST CYCLE

1. Press the On Key to turn the unit on.
2. Press the Defrost Key.
3. The Defrost Icon will appear and the unit will enter a defrost cycle. The defrost cycle will terminate automatically.

VIEWING PROMPT & DISPLAY SCREENS

1. Press the On Key to turn the unit on.
2. Press the Select key to view the prompt and display screens as follows:

[Alr]	Alarm codes if any
[CYCLS]	Cycle Sentry prompt
[dIS]	Discharge air temperature
[coL]	Evap coil temperature
[tLH]	Total unit hours
[EnH]	Diesel engine hours
[ELH]	Electric hours
[Hr4]	Hourmeter 4 if enabled
[Hr5]	Hourmeter 5 if enabled
[Hr6]	Hourmeter 6 if enabled
[oIL]	Engine oil pressure
[EnT]	Engine coolant temperature
[rPn]	Engine RPM
[bAt]	Battery voltage
[bLI]	Display backlight select
[dFI]	Initial defrost interval
[dDr]	Defrost duration

ELECTRIC MODE OPERATION

1. Units equipped with the Electric Standby option will automatically switch to Electric Mode operation any time the unit is connected to a source of Standby Power, the Standby Power source is energized and the unit is turned on.
2. The unit will operate in either Continuous or Cycle Sentry mode as selected.

VIEWING & CLEARING ALARM CODES

1. Press the On Key to turn the unit on
2. If the Alarm Icon is "on", alarm conditions have been detected
3. Press the Select key. The Alarm Screen and alarm code will appear. If more than one alarm is present, each will be displayed for several seconds. Always record any alarm codes shown. They are invaluable to the service technician.
4. After the alarm condition has been corrected, press the Select key to display the alarm code. When the alarm code is shown in the display, press the Enter key to clear the alarm.

ALARM CODES

00	No fault
02	Evaporator coil sensor
03	Return air sensor
04	Discharge air sensor
06	Engine water temp sensor
07	Engine RPM sensor
09	High evaporator temp
10	High discharge pressure
11	Unit controlling on discharge air sensor
12	Sensor shutdown
17	Engine failed to crank
18	High engine water temp
19	Low engine oil pressure
20	Engine failed to start
21	Cooling cycle check
22	Heating cycle check
23	Cooling cycle fault
24	Heating cycle fault
25	Alternator check
28	Unit Self Check abort
31	Oil pressure sensor
32	Refrigeration capacity low
33	Check engine RPM
35	Run Relay circuit
36	Electric motor failed to run
37	Check engine water level
38	Electric phase reversed
40	High speed circuit
52	Heat circuit
54	Test Mode timeout
61	Battery check
63	Engine stopped - reason unknown
66	Low engine oil level
70	Hourmeters exceed 99999
71	Hourmeter 4 exceeds set limit
72	Hourmeter 5 exceeds set limit
73	Hourmeter 6 exceeds set limit
74	Micro reverted to default settings
77	Internal fault code, dealer resettable

RUNNING A UNIT SELF CHECK

1. Press the On Key to turn the unit on.
2. Clear any alarm codes that may exist.
3. Press and hold the Thermo King Logo key for at least 3 seconds. The Unit Self Check prompt screen will appear.
4. Press the Enter key to start a Unit Self Check test. The display will briefly show [Lod] and the test will begin.
5. The test is fully automatic. When complete, [PASS], [CHEC] or [FAIL] will appear on the display. The unit will continue to control to setpoint.

ADDITIONAL INFORMATION

For additional information consult the following Thermo King manuals for your unit.

Operating Manual

Maintenance Manual

Parts Manual

Diagnosis Manual - TK 41017