

CHANGING THE SETPOINT

1. Turn unit On/Off Switch on.
2. Press Up and Down Arrow keys to chose the new setpoint.
3. Press the Enter key. The display will briefly show [LOAD], and then the new setpoint will reappear.

SELECTING CYCLE SENTRY OR CONTINUOUS MODE

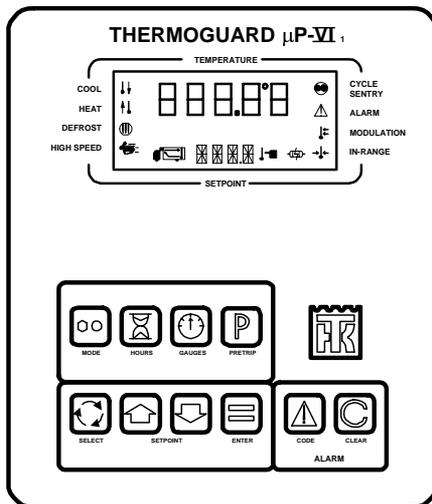
1. Turn unit On/Off switch on.
2. Press the Mode key to display [CYCLS] and [YES] or [NO].
3. Press the Up or Down Arrow key to select the desired mode. [YES] = Cycle Sentry mode, [NO] = Continuous mode.
4. Press the Enter key. The display will briefly show [LOAD], and then the new mode will reappear.

STARTING THE ENGINE

1. Turn the unit On/Off switch on. If no other key is pressed, the engine will automatically preheat and start in about 10 seconds.

CAUTION: The engine starts automatically in both Cycle Sentry and Continuous mode any time the On/Off switch is turned on.

OPERATING THE THERMOGUARD μ P-VI MICROPROCESSOR



TK 50754-2-PC

07 December 1999

MANUAL DEFROST CYCLE

1. Turn unit On/Off switch on.
2. Press the Mode key to display [dEF].
3. Press the Enter key. The display will briefly show [LOAD], and then the unit will enter a defrost cycle. The defrost cycle will terminate automatically.

VIEWING TEMPERATURE DISPLAYS

1. Turn the unit On/Off switch on.
2. Press the Select key to view the temperature display screens as follows:
[DIS.A] Discharge Air Temperature
[TPDF] Temperature Differential
[COIL] Evaporator Coil Temperature
[AMB.T] Ambient Air Temperature
[SPR.1] Spare Sensor 1
[SPR.2] Spare Sensor 2
[DAS.X] DAS sensors - If present

VIEWING GAUGE DISPLAYS

1. Turn the unit On/Off switch on.
2. Press the Gauge key to view the gauge display screens as follows:
[WAT.T] Engine Water Temp
[OIL.P] Engine Oil Pressure Status
[AMPS] Battery Current Flow
[BATV] Battery Voltage
[RPM] Engine RPM
[CTM.P] Compressor Temp (Screw only)
[SUC.P] Suction Pressure (ETV only)
[DIS.P] Discharge Pressure (ETV only)
[ETV.P] ETV Valve Position (ETV only)

VIEWING & CLEARING ALARM CODES

1. If the Alarm Icon is on, alarm conditions have been detected.
2. Press the Code key to display the alarm code. Press the Code key again to display any additional alarm codes. Always record any alarm codes shown.
4. After the alarm condition has been corrected, press the Code key to display the alarm code again. When the alarm code is shown in the display, press the Clear key to clear the alarm.

RUNNING A PRETRIP TEST

1. Turn the unit On/Off Switch on.
2. Clear all alarm codes.
3. Before the engine starts, press the Pretrip key. The Pretrip prompt screen [PrE TRIP] will appear.
4. Press the Enter key to start a Pretrip test. The display will briefly show [LOAD] and then the test will begin.
5. The Pretrip test is fully automatic. When it is complete [PASS], [CHEC] or [FAIL] will appear on the display.
6. If [CHEC] or [FAIL] appears, display and correct any alarm codes and repeat the test.

ALARM CODES

| | |
|----|--|
| 00 | No Fault |
| 02 | Evaporator Coil Sensor |
| 03 | Return Air Sensor |
| 04 | Discharge Air Sensor |
| 05 | Ambient 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 |
| 13 | Check Sensor Calibration |
| 15 | Glow Plug Check |
| 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 |
| 26 | Check Refrigeration Capacity |
| 28 | Pretrip Abort |
| 29 | Defrost Damper Circuit |
| 31 | Oil Pressure Switch |
| 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 |
| 39 | Water Valve |
| 40 | High Speed Circuit |
| 41 | Engine Water Temperature Check |
| 42 | Unit Forced to Low Speed |
| 43 | Unit Forced to Low Speed Modulation |
| 44 | Fuel System Check |
| 45 | Hot Gas Circuit |
| 46 | Air Flow Check |
| 48 | Check Belts/Clutch |
| 50 | Reset Clock |

ALARM CODES

| | |
|-----|--|
| 52 | Heat Circuit |
| 53 | Economizer Valve |
| 54 | Test Mode Timeout |
| 55 | Check Engine Speeds |
| 61 | Battery Check |
| 62 | Ammeter Out of Calibration Range |
| 63 | Engine Stopped - Reason Unknown |
| 64 | Pretrip Reminder |
| 66 | Low Engine Oil Level |
| 67 | Liquid Line Solenoid |
| 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 |
| 75 | Internal Fault Code, Dealer Resettable |
| 76 | Internal Fault Code, Dealer Resettable |
| 77 | Internal Fault Code, Dealer Resettable |
| 78 | Internal Fault Code, Dealer Resettable |
| 79 | Data Log Overflow |
| 80 | Compressor Temperature Sensor |
| 81 | High Compressor Temperature |
| 82 | High Compressor Temperature Shutdown |
| 83 | Low Coolant Temperature |
| 84 | Restart Null |
| 85 | Forced Unit Operation |
| 87 | Suction Pressure Transducer |
| 89 | ETV Circuit |
| 109 | Discharge Pressure Transducer |

ADDITIONAL INFORMATION

For additional information consult the Thermo King Operating, Maintenance, Parts and Diagnostic Manuals for your unit.