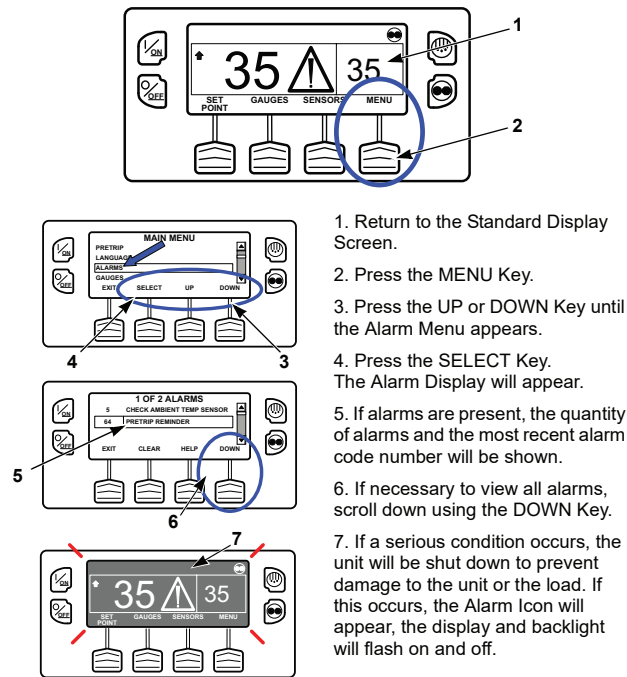
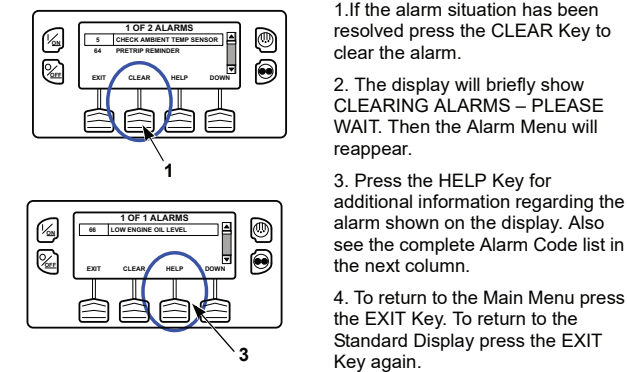


Simple to View:
Cause of Alarm



NOTE: For more detailed information, see the Operation chapter in the appropriate unit operating manual.

Simple to View:
Clearing Alarm Codes



NOTE: For more detailed information, see the Operation chapter in the appropriate unit operating manual.

Simple to Determine:
Cause of Alarm

- | | | | |
|----|--|-----|--|
| 0 | No Alarms Exist | 85 | Forced Unit Operation |
| 2 | Evaporator Coil Sensor | 86 | Discharge Pressure Sensor |
| 3 | Control Return Air Sensor | 87 | Suction Pressure Sensor |
| 4 | Control Discharge Air Sensor | 89 | Check Electronic Throttling Valve Circuit |
| 5 | Ambient Air Sensor | 90 | Electric Overload |
| 6 | Coolant Temp Sensor | 91 | Electric Ready Input |
| 7 | Engine RPM Sensor | 92 | Sensor Grades Not Set |
| 9 | High Evaporator Temperature | 93 | Low Compressor Suction Pressure |
| 10 | High Discharge Pressure | 96 | Low Fuel Level |
| 11 | Unit Controlling on Alternate Sensor | 98 | Fuel Level Sensor |
| 12 | Sensor or Digital Input Shutdown | 99 | High Compressor Pressure Ratio |
| 13 | Sensor Calibration Check | 105 | Receiver Tank Pressure Solenoid Circuit |
| 17 | Engine Failed to Crank | 106 | Purge Valve Circuit |
| 18 | High Engine Coolant Temperature | 107 | Condenser Inlet Solenoid Circuit |
| 19 | Low Engine Oil Pressure | 108 | Door Open Time-out |
| 20 | Engine Failed to Start | 110 | Suction Line Solenoid Circuit |
| 21 | Cooling Cycle Check | 111 | Unit Not Configured Correctly |
| 22 | Heating Cycle Check | 113 | Electric Heat Circuit |
| 23 | Cooling Cycle Fault | 114 | Multiple Alarms - Cannot Run |
| 24 | Heating Cycle Fault | 117 | Auto switch from Diesel to Electric |
| 25 | Alternator Check | 118 | Auto switch from Electric to Diesel |
| 26 | Refrigeration Capacity | 120 | Alternator Exciter Circuit |
| 28 | Pretrip Abort | 121 | Liquid Injection Circuit |
| 29 | Defrost Damper Circuit | 122 | Diesel/Electric Relay Circuit |
| 30 | Defrost Damper Stuck | 127 | Setpoint Not Entered |
| 31 | Oil Pressure Switch | 128 | Engine Run Time Maintenance Reminder #1 |
| 32 | Refrigeration Capacity Low | 129 | Engine Run Time Maintenance Reminder #2 |
| 33 | Check Engine RPM | 130 | Electric Run Time Maintenance Reminder #1 |
| 35 | Run Relay Circuit | 131 | Electric Run Time Maintenance Reminder #2 |
| 36 | Electric Motor Failed to Run | 132 | Total Unit Run Time Maintenance Reminder #1 |
| 37 | Engine Coolant Level | 133 | Total Unit Run Time Maintenance Reminder #2 |
| 38 | Electric Phase Reversed | 134 | Controller Power On Hours |
| 39 | Water Valve Circuit | 141 | Autoswitch Diesel to Electric Disabled |
| 40 | High Speed Circuit | 143 | Remote Zone Drain Hose Heater Output |
| 41 | Check Engine Coolant Temperature | 144 | Lost Expansion Module CAN Communication |
| 42 | Unit Forced to Low Speed | 145 | Loss of Controller "On" Feedback Signal |
| 43 | Unit Forced to Low Speed Modulation | 146 | Software Version Mismatch |
| 44 | Check Fuel System | 148 | Autoswitch Electric to Diesel Disabled |
| 45 | Hot Gas Bypass or Hot Gas Bypass Circuit | 149 | Alarm Not Identified |
| 46 | Check Air Flow | 150 | Out of Range Low |
| 48 | Check Belts/Clutch | 151 | Out of Range High |
| 50 | Reset Clock | 153 | Expansion Module Flash Load Failure |
| 52 | Heat Circuit | 157 | OptiSet Plus Mismatch |
| 54 | Test Mode Time-out | 158 | Primary Software Failed to Load |
| 56 | Host Evap Fan Low Speed | 203 | Display Return Air Sensor |
| 57 | Host Evap Fan High Speed | 204 | Display Discharge Air Sensor |
| 61 | Low Battery Voltage | 252 | Check Fresh Air Exchange Circuit |
| 62 | Ammeter Out of Calibration | 500 | Host Evaporator Fan Low Speed |
| 63 | Engine Stopped | 501 | Host Evaporator Fan High Speed |
| 64 | Pretrip Reminder | 502 | Host Evaporator Fan RPM Sensor |
| 65 | Abnormal Temperature Differential | 503 | Host Condenser Fan 1 RPM Sensor |
| 66 | Low Engine Oil Level | 504 | Host Condenser Fan 2 RPM Sensor |
| 67 | Liquid Line Solenoid Circuit | 505 | Roadside Condenser Fan Motor Speed Circuit |
| 68 | Internal Controller Fault | 506 | Curbside Condenser Fan Motor Speed Circuit |
| 70 | Hourmeter Failure | 507 | Digital Scroll Output Circuit |
| 74 | Controller Reset to Defaults | 508 | Speed Request Communication Error |
| 79 | Internal Data Logger Overflow | 509 | Engine Control Unit (ECU) Failed to Enable |
| 80 | Compressor Temp Sensor | 510 | Engine Control Unit (ECU) Run Signal Failed |
| 81 | High Compressor Temp | 511 | Engine Wait to Start Time Delay Expired |
| 82 | High Compressor Temperature Shutdown | 512 | High Compressor Suction Pressure |
| 83 | Low Engine Coolant Temperature | 513 | Low Compressor Suction Ratio |
| 84 | Restart Null | 514 | Minimum ETV Discharge Superheat Temperature |
| | | 515 | Minimum ETV Discharge Superheat Temperature |
| | | 516 | I/O Controller to Application Controller Communication Failure |
| | | 517 | Check for Water in Fuel System |
| | | 518 | Generator Ground Fault |
| | | 519 | Check Battery Charger Input Power |
| | | 520 | Check Battery Charger Output Power |
| | | 521 | Battery Charger External/Environmental Fault |
| | | 522 | Battery Temperature Sensor Alarm |
| | | 523 | Battery Temperature Sensor Alarm |
| | | 524 | Generator Operational Limit V out to Frequency Ratio |
| | | 525 | Generator Frequency Range Fault |
| | | 526 | Generator Operational Limit Output Current |
| | | 527 | Reserved |
| | | 528 | Controller Not Receiving Messages From Battery Charger |
| | | 529 | Check Fuel Pump Circuit |
| | | 530 | Low Pressure Differential |
| | | 531 | Check Economizer Pressure Sensor |
| | | 538 | Engine J1939 CAN Datalink Degraded |
| | | 539 | Engine J1939 CAN Datalink Failed |
| | | 599 | Engine Service Tool Connected |
| | | 600 | Check Crankshaft Speed Sensor |
| | | 601 | Check Camshaft Speed Sensor |
| | | 602 | Check Intake Throttle Position Sensor |
| | | 603 | Check Exhaust Pressure Sensor |
| | | 604 | Check Coolant Temperature Sensor |
| | | 605 | Check Fresh Air Temperature Sensor |
| | | 606 | Reserved |
| | | 607 | Check Fuel Temperature Sensor |
| | | 608 | Check Rail Pressure Sensor |
| | | 609 | Check Intake Pressure Sensor |
| | | 610 | Check Atmospheric Pressure Sensor |
| | | 611 | Check Glow Plug Circuit |
| | | 612 | Check Intake Throttle Circuit |
| | | 613 | Check Injector(s) |
| | | 614 | Check High Pressure Fuel Pump |
| | | 615 | Rail Pressure Fault |
| | | 616 | Engine Overspeed |
| | | 617 | Internal ECU Fault |
| | | 618 | Check EGR System |
| | | 619 | ECU Main Relay Fault |
| | | 620 | Reserved |
| | | 621 | Reserved |
| | | 622 | Reserved |
| | | 623 | TRU CAN Message Timeout |
| | | 624 | Check Intake Air Temperature Sensor |
| | | 625 | Check Intake Air Temperature Sensor |
| | | 626 | Check Exhaust Temperature Sensor |
| | | 699 | Unknown ECU Fault |

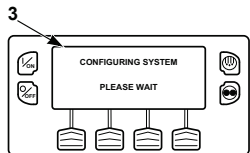
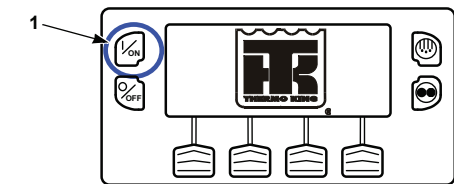
SR-4
Smart Reefer™ 4
Microprocessor



Driver Guide to
Simple
Operation



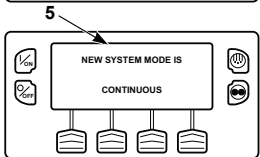
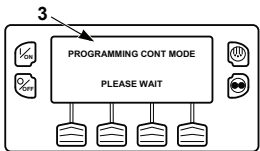
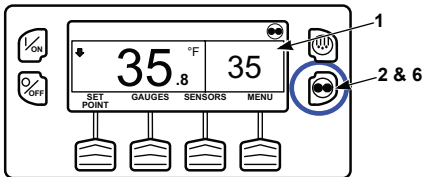
Simple to Start:



1. Press the ON Key.
2. The THERMO KING Logo appears briefly.
3. The startup screen appears while communications are established and the unit prepares for operation.
4. The Standard Display defaults to the "TemperatureWatch" screen after 2-1/2 minutes. The TemperatureWatch Display will remain on until any key is pressed or a check, prevent or shutdown alarm occurs.

NOTE: For more detailed information, see the Operation chapter in the appropriate unit operating manual.

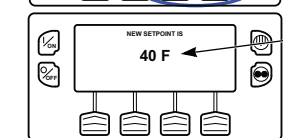
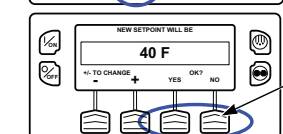
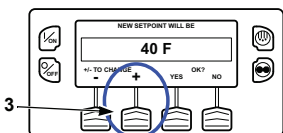
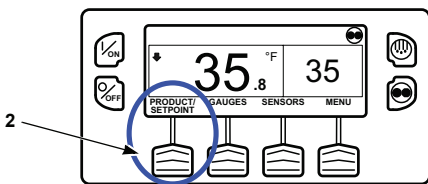
Simple to Set: CYCLE-SENTRY or Continuous Mode



1. Return to the Standard Display.
2. Press the CYCLE-SENTRY/Continuous Key.
3. The "Programming Continuous Mode" or "Programming CYCLE-SENTRY Mode" screen briefly appears.
4. The "New System Mode is Continuous" screen or the "New System Mode CYCLE-SENTRY" screen briefly appears.
5. The Standard Display appears and the heading on top of screen reads the new mode.
6. Pressing the CYCLE-SENTRY/Continuous Key again will change the unit back to the previous mode.

NOTE: For more detailed information, see the Operation chapter in the appropriate unit operating manual.

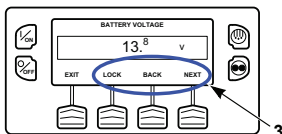
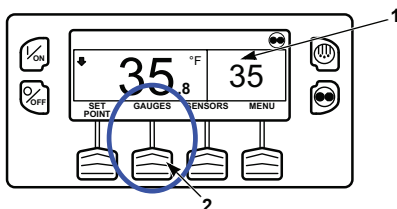
Simple to Set: Setpoint Temperature



1. Press any key to return to the Standard Display.
2. Press the SETPOINT Key on the Standard Display.
3. Press the + or - Keys to change the setpoint reading.
4. Press the YES or NO Key accordingly.
5. The Standard Display appears with setpoint changed to the new setpoint.

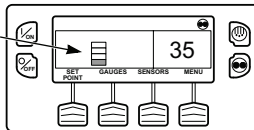
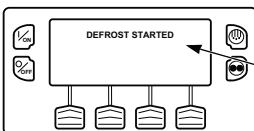
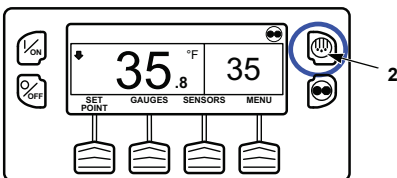
NOTE: For more detailed information, see the Operation chapter in the appropriate unit operating manual.

Simple to Check: Gauges



1. Return to the Standard Display. Press the MENU Key.
 2. Use UP and DOWN soft keys to scroll to the gauges option. Press the SELECT Key when gauges option is highlighted.
 3. Press BACK or NEXT Keys to scroll through following gauges: Coolant Temperature, Coolant Level, Engine Oil Pressure, Engine Oil Level, Amps, Battery Voltage, Accessory Battery Voltage, Engine RPM, Fuel Level Sensor, Discharge Pressure, Suction Pressure, ETV Position, Fresh Air Exchange, I/O. If no keys are pressed within 30 seconds, the screen will return to the Standard Display.
 4. Press the LOCK Key to display any gauge screen for an indefinite period. Press the key again to unlock the screen.
 5. Press the EXIT Key to return to the Standard Display.
- NOTE:** For more detailed information, see the Operation chapter in the appropriate unit operating manual.

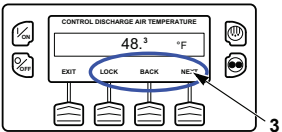
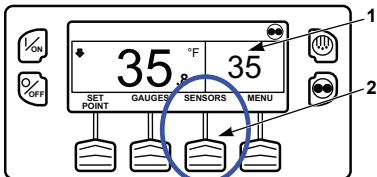
Simple to Defrost: Initiate Manual Defrost



1. Return to the Standard Display.
2. Press the DEFROST Key.
3. The display will show "Programming Defrost Please Wait."
4. The display then shows the Defrost Display. The bar indicator will fill in showing the time remaining to complete the Defrost cycle. When the Defrost cycle is complete the display returns to Standard Display screen.

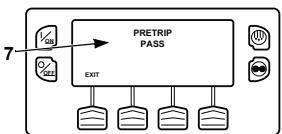
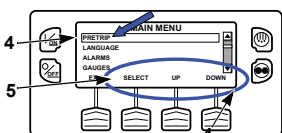
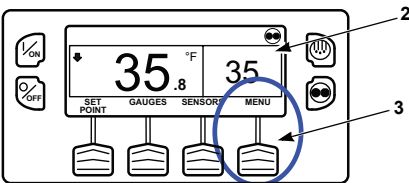
NOTE: For more detailed information, see the Operation chapter in the appropriate unit operating manual.

Simple to Access: Sensors



1. Return to the Standard Display.
 2. Press the SENSORS Key.
 3. Press the BACK or NEXT Keys to scroll through the following sensor screens: Control Return Air Temperature, Display Return Air Temperature, Temperature Differential, Evaporator Coil Temperature, Ambient Air Temperature, Spare 1 Temperature, Datalogger Temperature Sensors 1-6 and the Board Temperature Sensor. If no keys are pressed within 30 seconds, the screen will return to the Standard Display.
 4. Press the LOCK Key to display any sensor screen for an indefinite period. Press the key again to unlock the screen.
 5. Press the EXIT Key to return to the Standard Display.
- NOTE:** For more detailed information, see the Operation chapter in the appropriate unit operating manual.

Simple to Check: Pretrip Test

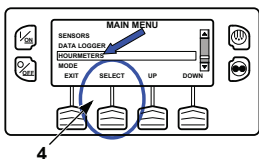
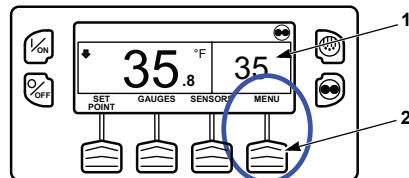


1. Clear all alarm codes.
2. Return to the Standard Display.
3. Press the MENU Key.
4. Press the UP or DOWN Key as to choose the Pretrip Menu.
5. Press the SELECT Key to start a Pretrip Test.
6. If the unit is not running, a Full Pretrip will be initiated. If the unit is running in either diesel or electric mode, a Running Pretrip will be performed.

7. When all tests are complete, the results are reported as PASS, CHECK or FAIL. If the results are CHECK or FAIL, the accompanying alarm codes will direct the technician to the cause of the problem.

NOTE: For more detailed information, see the Operation chapter in the appropriate unit operating manual.

Simple to Check: Hourmeters



1. Return to the Standard Display screen.
 2. Press the MENU Key.
 3. Scroll through Main Menu by repeatedly pressing the UP and DOWN Keys until the hourmeters Main Menu Screen appears.
 4. Press the SELECT Key to enter the Hourmeters Menu.
 5. Press the NEXT and BACK Keys to view the Hourmeter Displays.
- NOTE:** For more detailed information, see the Operation chapter in the appropriate unit operating manual.