






HOW TO LOAD THIS TRAILER

Before you load . . .

- Adjust desired thermostat setpoint using up and down arrow keys   , press **ENTER**  to load.
- Turn the unit On/Off switch On. Clear any alarms. Press the  Pretrip key. “Pretrip” appears on the display. Press **ENTER**  to load.
- Pre-cool the trailer 1 to 2 hours or until refrigeration unit cycles off or to low speed.
- Pre-cool the product to desired shipping temperature.

As you load . . .

- Turn off the refrigeration unit whenever the trailer doors are open.
- Do not stack product in a way that prevents the air circulation around all six sides of the load.

After you load . . .

- Turn off the refrigeration unit whenever the trailer doors are open.
- Avoid frequent and lengthy door openings.

HAVING PROBLEMS?

*This trailer is designed to maintain product temperatures, not lower them.
Hot products may cause ice build-up on refrigeration coils.*

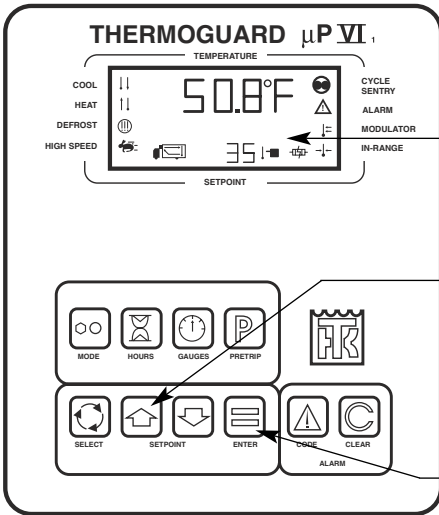
If the unit will not run:

- Remember the unit will automatically cycle off if the refrigeration unit has reached the thermostat setpoint. (Cycle Sentry Mode)
- Check the control panel display for flashing alarm codes. If present press the code key several times and note all codes present. Call the XTRA Lease 24-hour RoadWatch number, 800-325-1453, press option #1.

If the unit will not cool, check:

- Was the product too hot when it was loaded?
- Are the doors opened frequently or left open several minutes?
- Initiate manual defrost. **NOTE:** Return air temperature must be below 45°F.

Changing the Setpoint



1 The Standard Display must be shown. The setpoint shown here is 35°F.

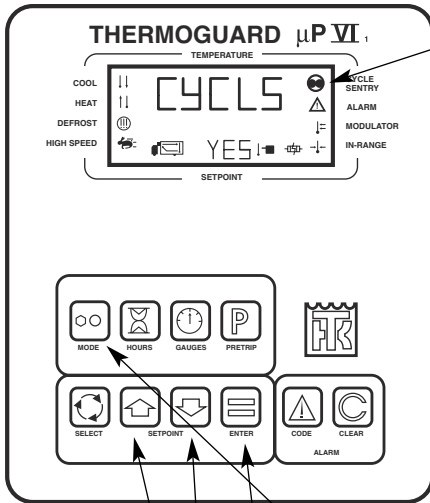
2 Press the Up or Down Arrow keys to change the setpoint to the new setpoint. The new setpoint will flash as a reminder to press the Enter key.

3 When the desired setpoint is shown in the display, the Enter key must be pressed to load the new setpoint into the microprocessor. The display will briefly show [LOAD] and then the new setpoint will appear in the display.



IMPORTANT: The **ENTER** key must be pressed in order to change the setpoint! If the **ENTER** key is not pressed, the setpoint will return to the old setpoint about 10 seconds after the last key change is made.

Selecting Cycle Sentry or Continuous Mode



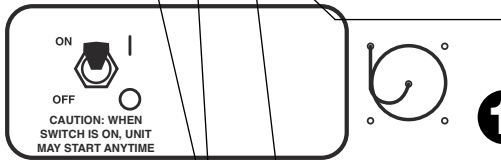
NOTE: The Cycle Sentry icon will appear when Cycle Sentry mode is selected and the On/Off switch is “on”.

Continuous Mode (CYCLS = nO)

When Continuous mode is selected, the unit will preheat and start automatically and will run continuously to maintain the setpoint and provide constant airflow.

Cycle Sentry Mode (CYCLS = Yes)

When Cycle Sentry mode is selected, the unit will start and stop automatically as required to maintain the setpoint, keep the engine warm and the battery charged.



1 MODE Key: Press the Mode key until the display shows CYCLS and YES or nO.

2 Arrow Keys: Press the Arrow keys to choose YES or nO. YES = Cycle Sentry Mode, nO = Continuous Mode. If Optiset has been programmed to exclude Cycle Sentry or Continuous mode, the Arrow keys will not change the setting shown.

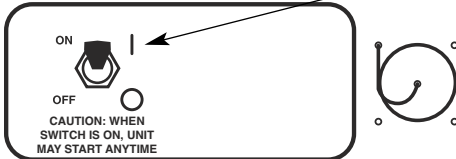
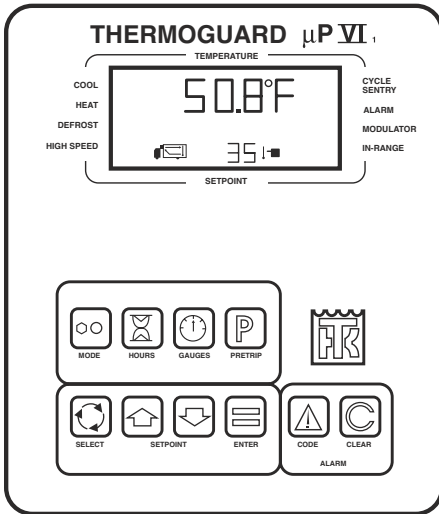
3 ENTER Key: When the desired mode is shown in the display, the ENTER key must be pressed to load the new mode. The display will briefly show [LOAD] and the new mode will then be shown in the display.

CAUTION: The unit may start automatically anytime the On/Off switch is On.

IMPORTANT: You must press the ENTER key or the mode will not be changed! The display will return to the Standard Display and the mode will return to the previous mode if the ENTER key is not pressed.

OPTISET NOTE: The Arrow keys will not change the displayed setting if OptiSet has been configured to allow only one mode of operation.

Starting the Diesel Engine



- 1 Turn the ON/OFF switch to On. If no keys are pressed the engine will automatically preheat and start in about 10 seconds.

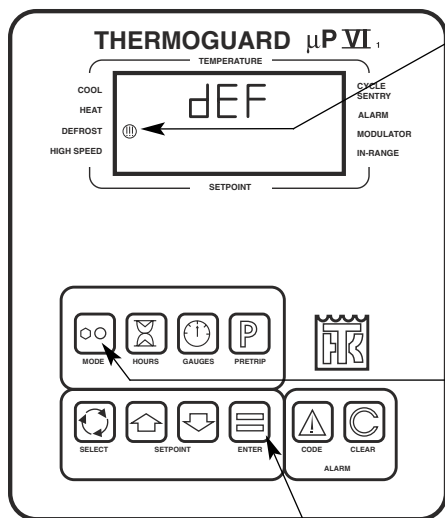
If keys are pressed (to change the setpoint or view display screens) the engine will automatically preheat and start about 10 seconds after the last key is pressed.

Either Cycle Sentry or Continuous Mode may be selected. The engine start will be delayed in Cycle Sentry Mode if there is no current need to start the engine.

CAUTION: The unit may start automatically anytime the On/Off switch is On.

WARNING: Never use starting fluid.

Initiating a Manual Defrost Cycle



NOTE: The Defrost icon will appear whenever the unit is in a Defrost cycle.

The unit must be turned On and running in either Continuous or Cycle Sentry mode or shut down in Cycle Sentry Null mode . . .

and

The coil temperature must be below 45°F (7°C).

1 Mode Key: Press the Mode key until the display shows dEF. The dEF prompt will not appear if the coil temperature is not below 45°F (7°C).

2 Enter Key: When dEF is shown in the display the Enter key must be pressed to start a manual defrost cycle. The display will briefly show LOAD and then the manual defrost cycle will begin.

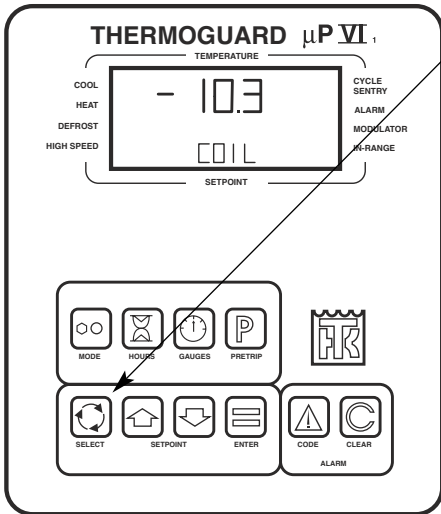
3 Terminating Defrost: The defrost cycle will be automatically terminated by the microprocessor when the coil is free of frost. A defrost cycle can also be terminated by turning the unit Off and back On.



IMPORTANT: The unit will not perform a Manual Defrost Cycle unless:

- The On/Off switch is On.
- The unit is running in Continuous or Cycle Sentry mode or shut down in Cycle Sentry Null mode.
- The coil temperature is 45°F (7°C).
- The defrost cycle is terminated automatically or by turning the unit Off and back On.

Viewing Select Key Display Screens



Press the Select key to view the display screens in the order shown below.

- DIS.A Discharge Air Temp
- TPDF Temp Differential (ΔT)
- COIL Evaporator Coil Temp
- AMB.T Ambient Air Temp
- SPR.1 Spare Sensor 1 Temp
- SPR.2 Spare Sensor 2 Temp
- DAS.1 DAS Sensor 1 Temp*
- DAS.2 DAS Sensor 2 Temp*
- DAS.3 DAS Sensor 3 Temp*
- DAS.4 DAS Sensor 4 Temp*
- DAS.5 DAS Sensor 5 Temp*
- DAS.6 DAS Sensor 6 Temp*
- Returns to Standard Display

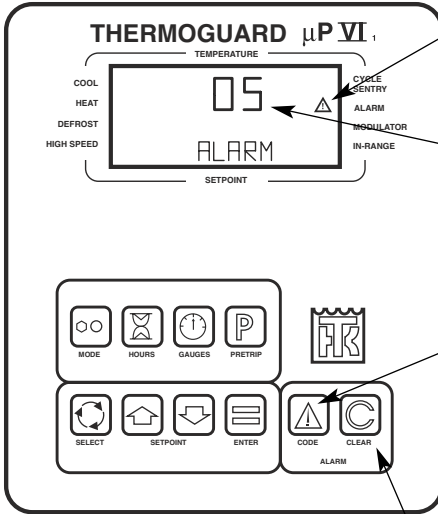
* = If DAS is installed on unit



IMPORTANT: Each display screen will be shown in the display for 10 seconds if no other key is pressed.

Locking a Display Screen on the Display: Pressing the Enter key will lock the display screen currently shown in the display. It will then remain on the display until any other key is pressed.

Viewing and Clearing Alarm Codes



NOTE: If an alarm or alarms are present, the Alarm icon will appear. It is possible to have more than one alarm at a time.

NOTE: The alarm code shown here is a Code 05 - Ambient Temperature Sensor alarm.

Viewing Alarm Codes: If the Alarm icon is present, press the Code key to display the alarm code. Pressing the Code key again will display any additional alarm codes that may exist. If the alarm code does not change when pressing the Code key, then the alarm shown is the only one present. If no alarm codes are present, the code [00] appears when the Code key is pressed.



Clearing Alarm Codes: After the condition that caused the alarm code has been corrected, press the Code key to again display the alarm code. While the code is shown in the display, press the Clear key to clear the code.

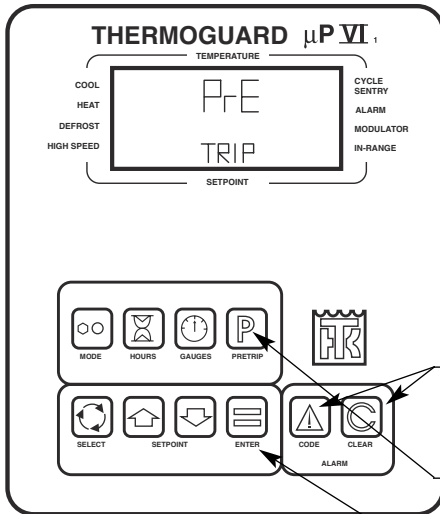
IMPORTANT: Always record all alarm codes that are present.

NOTE: Alarm Codes are displayed in the order that they occurred, with the most recent alarm appearing first.

NOTE: If the condition that caused the alarm code has not been corrected, the alarm code will continue to appear.

For Additional Information on Alarm Codes, consult the last page of this manual.

Running a Full Pretrip Test



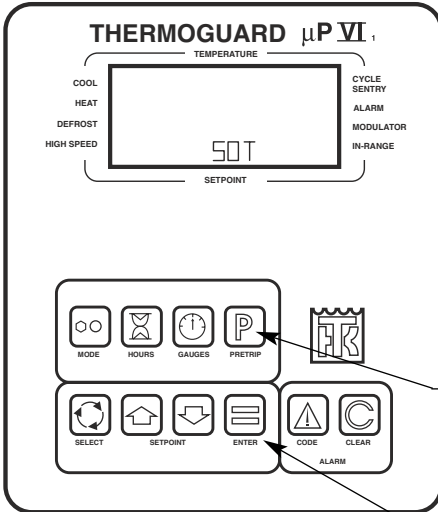
NOTE: The Pretrip Test is a functional test of the unit's operating capability. Once the test is started by the operator, it is fully automatic and requires no operator attendance.

- 1** Turn the Unit On/Off switch On.
- 2** Clear all alarms using the Code and Clear keys.
- 3** Before the engine starts, press the Pretrip key. The Pretrip prompt screen [PrE TRIP] will appear in the display.
- 4** Press the Enter key to start a Pretrip Test. The display will briefly show [LOAD] and the unit will then begin a Pretrip Test.

IMPORTANT: The Enter key must be pressed in order to start the Pretrip test. If the Enter key is not pressed, the display will return to the Standard Display after about 10 seconds.

NOTE: The Pretrip test should not be interrupted unless absolutely necessary. If the Pretrip test must be halted, turn the On/Off switch Off. This will generate one or more alarms, including an alarm code 28 – Pretrip Abort alarm. This is normal.

Sending a Start of Trip to the Internal or DAS Data Logger



- 1** Turn the Unit On/Off switch On. The backlight will turn on and the Standard Display is shown.
- 2** Press the Pretrip key several times to display the Start of Trip prompt [SOT].
- 3** Press the Enter key to send a Start of Trip marker to the unit data logger.



IMPORTANT: The Enter key must be pressed in order to send a Start of Trip marker!

Alarm Codes

00 No Fault	33 Check Engine RPM	Meter #4 Exceeds Set Limit
02 Evaporator Coil Sensor	34 Modulation Circuit	72* Maintenance Hour Meter #5 Exceeds Set Limit
03 Return Air Sensor	35 Run Delay Circuit	73* Maintenance Hour Meter #6 Exceeds Set Limit
04 Discharge Air Sensor	36 Electric Motor Failed To Run	74 μ P Reverted to Default Setting
05 Ambient Sensor	37 Check Engine Coolant Level	75-78 Internal Fault Code Factory Or Dealer Reset Only
06 Water Temperature Sensor	38 Electric Phase Reversed	79 Data Log Overflow
07 RPM Sensor	39 Water Value Circuit	80 Compressor Temp Sensor
09 High Evaporator Temperature	40 High Speed Circuit	81 High Compressor Temp
10 High Discharge Pressure	41 Engine Coolant Temperature Check	82 High Compressor Temp Shutdown
11 Unit Controlling On Discharge Air	42 Unit Forced To Low Speed	83 Low Engine Coolant Temp
12 Sensor Shutdown	43 Unit Forced To Low Speed Modulation	84 Restart Null
13 Check Sensor Calibration	44 Fuel System Check	85 Forced Unit Operation
15 Glow Plug Check	45 Hot Gas Circuit	87 Suction Pressure Sensor
17 Engine Failed To Crank (Cycle Sentry)	46 Air Flow Check	89 Electronic Throttling Valve (ETV) Circuit
18 High Engine Water Temperature	48 Check Belts/Clutch	96 Low Fuel Level (Option)
19 Low Engine Oil Pressure	50 Reset Clock	98 Fuel Level Sensor Failure (Option)
20 Engine Failed To Start	52 Heat Circuit	109 Discharge Pressure Sensor
21 Cooling Cycle Check	53 Economizer Valve Circuit	
22 Heating Cycle Check	54 Test Mode Timeout	
23 Cooling Cycle Fault	55 Check Engine Speeds	
24 Heating Cycle Fault	61 Low Battery Volts	
25 Alternator Check	62 Ammeter Out Of Calibration Range	
26 Refrigeration Capacity Check	63 Engine Stopped - Reason Unknown	
28 Pretrip Abort	64 Pretrip Reminder	
29 Damper Circuit	66 Low Engine Oil Level	
31 Oil Pressure Switch	67 Liquid Line Solenoid Circuit	
32 Refrigeration Capacity Low	70 Hourmeters Exceeded 99999	
	71* Maintenance Hour	

* Cleared through guarded access only.

A dash (-) before alarm code indicates it was generated during a pretrip.