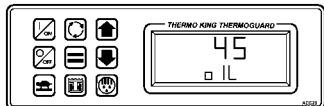


## Viewing Prompt and Display Screens

1. Press the ON key to turn the unit ON.
2. Press the SELECT key repeatedly to show the prompt and display screens.



The prompt and display screens will appear in the order shown below:

**[ALr]** Alarm codes if present. If no codes exist this screen will not appear.

**[CYCLS]** CYCLE SENTRY or Continuous mode prompt screen. [YES] - CYCLE SENTRY;

[no] = Continuous

**[dIS]\*** Discharge air temperature as measured by the discharge temperature sensor.

**[coL]\*** Evaporator coil temperate as measured by the evaporator coil temperature sensor.

**[tLH]** Total amount of time in hours the unit has been turned ON with the keypad On key (if enabled).

**[EnH]** Total amount of time in hours the diesel engine has run.

**[ELH]** Total amount of time in hours the electric motor has run (on units equipped with Electric Standby).

**[Hr4]** Total accumulated hours on hourmeter 4 (if enabled).

**[Hr5]** Total accumulated hours on hourmeter 5 (if enabled).

**[Hr6]** Total accumulated hours on hourmeter 6 (if enabled).

**[oIL]\*** Diesel engine oil pressure.

**[Ent]\*** Diesel engine coolant temperature.

**[rPn]\*** Diesel engine RPM.

**[bAt]\*** Battery voltage of the unit battery.

**[bLit]** Backlight select (allows the driver to select high or low backlight illumination level).

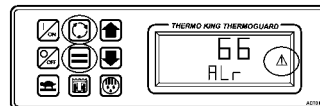
**[dFI]** Initial defrost interval.

**[ddr]** Defrost duration.

\*Each prompt or display screen will remain on the display for about 10 seconds. If no other key is pressed, the display will then return to the Standard Display of box temperature and setpoint.

## Viewing and Clearing Alarm Codes

1. Press the ON key to turn the unit ON.
2. If the ALARM icon is present, one or more alarms have been detected.



### To View Alarm Codes

1. Press the SELECT key to show the Alarm display screen. If more than one alarm code exists, each will be displayed for several seconds. The alarm code shown here is alarm code 66-Low Engine Oil Level.

### To Clear Alarm Codes

1. Correct the cause of the alarm code.
2. Press the SELECT key to display the alarm code.
3. Press the ENTER key to clear the alarm code. If more than one alarm code is present, the ENTER key must be pressed to clear each alarm code individually.

Consult the operating manual for your Thermo King unit to view the complete list of possible alarm codes and their definitions. Consult unit operating, maintenance and parts manuals for additional information on unit operation and maintenance.

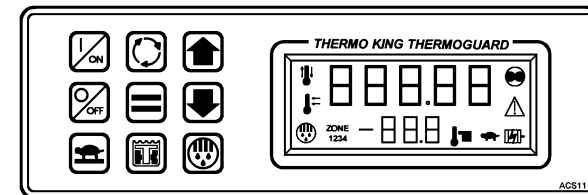


**CAUTION: This is a quick reference guide. Always refer to the operating manual for detailed instructions.**

The  $\mu$ P-T Microprocessor is used on:

- KD-II Smart Reefer Truck units
- RD-II Smart Reefer Truck units
- TD-II Smart Reefer Truck units
- MD Smart Reefer Truck units
- TS Smart Reefer Truck units

# $\mu$ P-T Remote Control Operating Guide



### Keypad/Display Descriptions

#### Selecting CYCLE-SENTRY or Continuous Mode

#### Starting the Engine

#### Initiating a Manual Defrost Cycle

#### Viewing Prompt and Display Screens

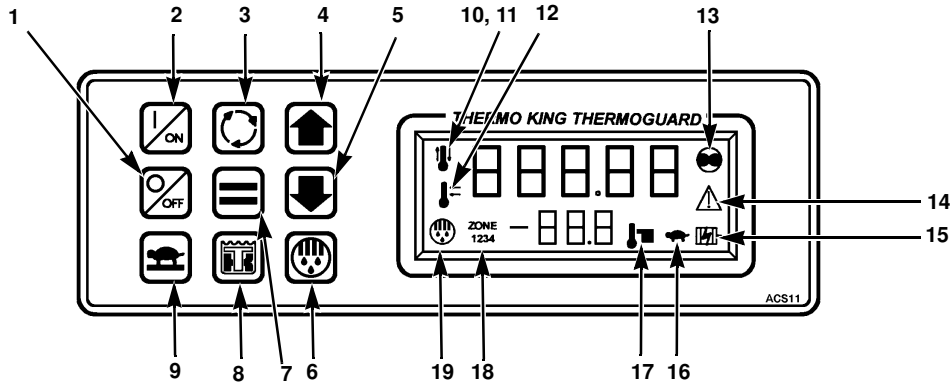
#### Viewing and Clearing Alarm Codes



# THERMO KING

TK 50772 - PC Rev 1, 04-08 © Thermo King Corporation

# µP-T Remote Control Features

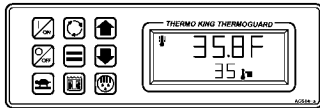


## Keypad Descriptions

- 1. OFF Key.** Used to turn the unit off.
- 2. ON Key.** Used to turn the unit on.
- 3. SELECT Key.** Scrolls through the prompt and display screens.
- 4. UP ARROW Key.** Chooses prompt screen actions or increases setpoint or other setting.
- 5. DOWN ARROW Key.** Chooses prompt screen actions or decreases setpoint or other setting.
- 6. DEFROST Key.** Initiates a manual defrost cycle.
- 7. ENTER Key.** Executes prompts or loads setpoints or other new settings.
- 8. LOGO Key.** Initiates the Unit Self Check test and displays software revision.
- 9. WHISPER Key.** Disables high speed diesel mode operation.

## The Standard Default Display

The Standard Default Display appears when the unit is turned ON and no other functions have been selected. The box temperature appears in the upper display and the setpoint appears in the lower display. This display shows a box temperature of 35.8 F and a setpoint of 35 F. The Standard Display is the starting point used to reach all other prompts and displays. To return to this display from any other prompts or display, wait 10 seconds and it will return automatically.

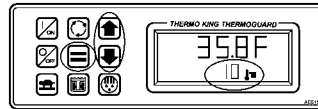


## LCD Display Descriptions

- 10 and 11. COOL/HEAT Icon.** This icon appears when the unit is cooling or heating.
- 12.** This icon appears during a remote control panel test but is not used on truck units.
- 13. CYCLE SENTRY Icon.** This icon appears when CYCLE-SENTRY mode has been selected.
- 14. ALARM Icon.** This icon appears when an alarm condition has been detected by the microprocessor.
- 15. ELECTRIC Icon.** This icon appears when Electric mode has been selected.
- 16. WHISPER Icon.** This icon appears when Whisper mode has been selected.
- 17. SETPOINT Icon.** This icon appears when the setpoint is being shown in the lower display.
- 18.** These icons appear during a remote control panel test but are not used on truck units.
- 19. DEFROST Icon.** This icon appears when the unit is defrosting.

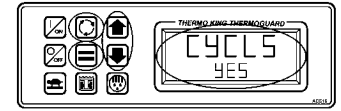
## Changing the Setpoint

- Press the ON key to turn the unit ON.
- Press the Arrow keys to select the desired setpoint.
- Press the Enter key to load the new setpoint into the microprocessor. The display will show "Lod" (abbreviation for LOAD) and will display for a few seconds and then the new setpoint will reappear in the display.



## Selecting CYCLE-SENTRY or Continuous Mode

- Press the ON key to turn the unit ON.
- Press the SELECT key to display [CYCLS] and [YES] or [NO].
- Press the Arrow keys to select the desired mode [YES]=CYCLE SENTRY Mode in diesel and electric [NO]=Continuous Mode in diesel and electric.
- Press the Enter key to load the new operating mode selection into the microprocessor.

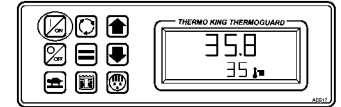


**IMPORTANT: The ENTER key must be pressed or the setpoint will not be changed. The display will return to the Standard Display and the setpoint will return to the old setpoint in about 10 seconds if the ENTER key is not pressed.**

## Starting the Engine

**CAUTION: This unit will start automatically in either CYCLE SENTRY or CONTINUOUS mode after the ON key is pressed.**

- 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 in either CYCLE SENTRY or CONTINUOUS mode. If other keys are pressed (for example: to change the setpoint or view display screens), the engine will automatically preheat and start about 10 seconds after the last key is pressed.



## Initiating a Manual Defrost Cycle

- The unit must be running in either CYCLE SENTRY or CONTINUOUS mode and the coil temperature must be below 42 F (7 C). Press the Defrost key to start a manual defrost cycle. The defrost prompt will appear in the display when the unit starts a defrost cycle. The defrost cycle will terminate automatically. If the unit is not running or the coil temperature is not below 42 F (7 C), the request will be ignored.

