

SIMPLE TO SWITCH

Switching from Diesel to Electric Operation/
Switching from Electric to Diesel Operation

CAUTION

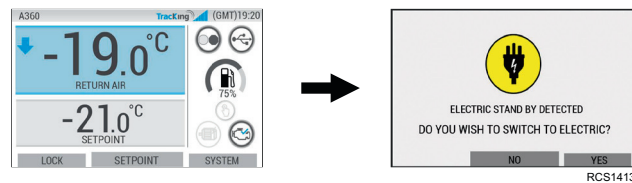
Risk of Injury!!

The motor may start automatically any time the unit is turned on.

Automatic Switching to Electric: Electric motor starting is automatic in both Continuous Mode and Cycle Sentry Mode when the Auto-Switching Enabled feature is set to YES and electric standby power is detected.

Manually Switching from Diesel to Electric: The unit will need to be manually switched to Electric Mode only when the unit is operating in Diesel Mode and Auto-Switching Enabled feature is set to NO. To manually switch to Electric Mode:

1. Connect standby power cord to receptacle.
2. Turn standby power source on.
 - Electric Standby Detected will be displayed when electric standby power is connected and available to the unit while operating on diesel power.
3. Switch from diesel mode to electric mode by pressing Key 3 directly below the "YES" box.



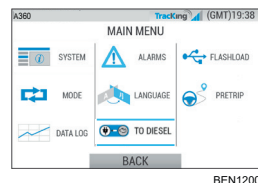
The following will be displayed briefly.



CAUTION

Risk of Injury!!

The engine may start automatically any time the unit is turned on.



The unit can be manually switched to Diesel Mode from the MAIN MENU while operating in Electric Mode.

Press the ACCEPT/ENTER Key to activate Diesel Mode



HMI will display this screen for 3 seconds

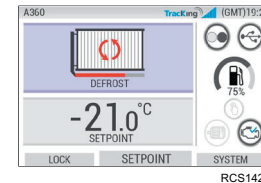
SIMPLE TO DEFROST

Initiate Manual Defrost

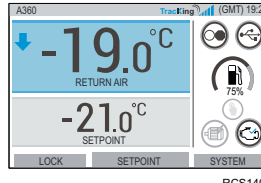
Defrost cycles are usually initiated automatically based on time and demand. The operator can also initiate a manual defrost if necessary. Manual defrost is only available if the unit is running and the evaporator coil temperature is less than or equal to 45F (7C).

Note: Other features such as door switch settings may not allow manual defrost under certain conditions.

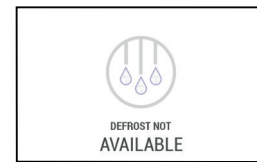
- If the defrost parameters are met —HMI will display "PROGRAMMING DEFROST" followed by "UNIT IS DEFROSTING".
- In Defrost Mode, the trailer temperature box will be replaced by defrost information and trailer temp box and dashboard will change its color to "purple".
- Additionally, the return air temperature (trailer temp) will be replaced by the coil icon and a intermediate spinner on top with a display progress bar for the remaining defrost time across the bottom.



When the defrost is complete, the HMI will display "EXITING DEFROST" for 2 seconds and return to the standard display.



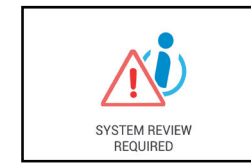
HMI will display "DEFROST NOT AVAILABLE" if the defrost parameters are not met.



SIMPLE TO DETERMINE

Alarms

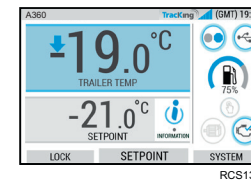
Important: Always record any Alarm Codes that occur - in the order that they occur - as well as any other pertinent information. This information is extremely valuable to service personnel.



RCS1395

SYSTEM REVIEW REQUIRED will be displayed to alert the operator that the unit has generated an alarm.

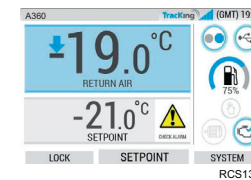
Information Alarms



RCS1398

The INFORMATION icon will appear in the setpoint window.

Check Alarms



RCS1396

CHECK ACTIVE icon will appear in the setpoint window.

Shutdown Alarms

ALARM ACTIVE icon will appear on the center of the display and Temperature control will be disabled.



RCS1397

- TRAILER TEMP box and SETPOINT will be greyed out.
 - Soft key (1) will change to "Alarms" functionality.
 - Status bar and dashboard (lit icons) will change to a "Red" colour.
- If no action is taken, the ACTIVE ALARM icon will appear in the setpoint window.

There are several options for viewing the Alarm Codes list pertaining to your particular unit:

1. By visiting our www.europe.thermoking.com/tools for a link to the Thermo King Alarm Codes App.
2. By downloading our Truck, Trailer, Cyro and DAS Alarm Codes Booklet for all Alarm Codes. This can be downloaded from the following link: www.emea-user-manuals.thermoking.com/ or at the QR code below.
3. A printed copy can also be obtained from your Thermo King Dealer Representative.



www.emea-user-manuals.thermoking.com

For more information or tutorial sessions, please contact your Thermo King Service Manager

A-Series Controller Overview



Driver's Guide to Simple Operation



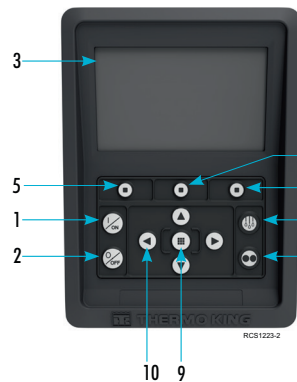
CONTROLLER OVERVIEW

HMI Control Panel

CAUTION

Risk of Injury!!
Do not operate the HMI Control Panel until you are completely familiar with its function.

The A-Series Controller HMI (Human Machine Interface) control panel is used to operate the unit. The HMI has a display and twelve touch sensitive keys. The display is capable of showing both text and graphics.



Keypad Details

1. On Key
2. Off Key
3. Display Screen (5.7 ")
4. Soft Key 2
5. Soft Key 1
6. Soft Key 3
7. Defrost Key
8. Cycle-Sentry Key
9. Accept/Enter Key
10. Navigation Keys (x4)

CONTROLLER OVERVIEW

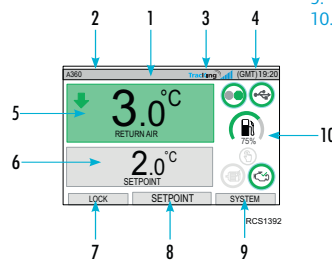
Standard Display

The Standard Display is the "base" from which all other display operations are launched. The Standard Display appears after the unit startup sequence is completed.



Standard Display and Icon Descriptions

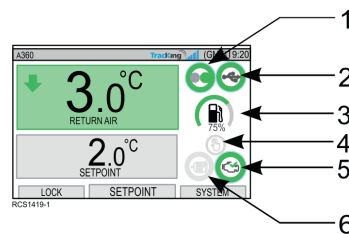
1. Status Bar — Displays unit information across top of screen.
2. Model Type/Specification — Displays unit type.
3. TrackIng Signal — Displays telematics signal strength.
4. Time w/Time Zone — Displays current time. Time Zone shows that you are now in a region +/- from the time shown.
5. Trailer Temp — Displays actual box temperature.
6. Setpoint — Displays temperature defined by user.
7. LOCK — Is customizable in Main Menu Plus (Default screen is LOCK).
8. SETPOINT — Used for critical functions.
9. SYSTEM — Is customizable in Main Menu Plus.
10. DASHBOARD



CONTROLLER OVERVIEW

Dashboard

The Dashboard is located on the right of the Standard Display and is the hub for overall system operation. Similar to a car dashboard, all icons have a defined position and only become lit when active. This allows the operator to quickly identify the unit's operating mode e.g., Continuous, Cycle-Sentry, Diesel or Electric.



Dashboard Icons and Descriptions

1. Cycle-Sentry: This icon indicates the unit is operating in Cycle-Sentry Mode.
2. USB Connection Status: This icon indicates a USB flash drive is connected to the A-Series Controller.
3. Fuel Level: This icon indicates the trailer unit's fuel in percentage (if applicable).
4. Auto-Switch: This icon indicates:
 - When lit, Auto-Switch Enabled feature is set to YES, allowing unit to switch automatically from Diesel Mode to Electric Mode when standby power is connected and available.
 - Not lit, Auto-Switch Enabled feature is set to NO, keeping unit in Diesel Mode. A prompt screen (Yes/No) will appear when standby power is connected and available.
5. Electric Operation: This icon indicates the unit is operating in Electric Mode (if applicable).
6. Diesel Operation: This icon indicates the unit is operating in Diesel Mode.

EASY TO SET

Changing the Setpoint

- Pressing Key 2 under SETPOINT will take you to the setpoint screen.



- Pressing the UP arrow key will increase the value by 1 until setpoint reaches to higher limit.
- Pressing the DOWN arrow key will decrease the value by 1 until setpoint reaches lower limit.
- Pressing and holding either the UP or DOWN arrow key will accelerate the values until released.
- Pressing Key 3 under CONFIRM will display "PROGRAMMING SETPOINT PLEASE WAIT".
- If change is successful —HMI will display "SETPOINT CHANGED".
- If change is unsuccessful—HMI will display "SETPOINT NOT CHANGED".

SIMPLE TO SET

Continuous/Cycle-Sentry Modes

Note: The unit retains the last user configured operating mode when power cycled. i.e. If the unit was running in Continuous Mode, and then power is cycled, the unit would still remain in continuous mode.

1. With the unit operating and the Cycle-Sentry icon lit, press the Cycle-Sentry Key to initiate the Continuous Mode programming process.
 - After a few seconds, the Standard Display will return and Cycle-Sentry icon will no longer be lit.
 - The unit is now operating in Continuous Mode.

If the initiation failed, the unit will return to Cycle-Sentry Mode. Check for alarms and retry.

2. With unit operating in Continuous Mode, press the Cycle-Sentry Key to initiate the programming process.

After a few seconds, the Standard Display will return and the Cycle-Sentry icon will be lit. The unit is now operating in Cycle-Sentry Mode.

If the initiation failed, the unit will return to Continuous Mode. Check for alarms and retry.



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

SIMPLE TO ACCESS

Main Menu

The Main Menu contains several additional submenus that allow the operator to view information and modify unit operation.

To access the Main Menu press the ACCEPT/ENTER key.



Main Menu Options:

- System Mode
- Data Log
- Alarms
- Language
- To Diesel
- FlashLoad
- Pretrip

Use the UP, DOWN, LEFT or RIGHT keys to scroll through the menu choices. When the desired selection is shown, press the ACCEPT/ENTER key. Once you have made your selection, again use the UP, DOWN keys and the ACCEPT/ENTER key to view information or modify unit operation. When done, navigate to the BACK icon and press the ACCEPT/ENTER key to return to the Standard Display.

SIMPLE TO START/STOP

Turning the unit On/Off

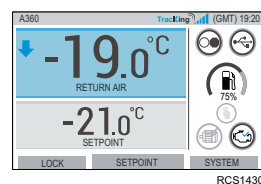
Note: Microprocessor On/Off Switch must be in the "ON" position for unit to operate. Turn unit on by pressing the ON Key.

Note: System startup sequence may take up to 60 seconds to configure.

Note: If Electric Standby is active, there may be some additional prompts before the engine will start.



Once the system startup sequence is completed, the Standard Display will appear and unit will start in the Diesel Mode (if no Electric Standby is detected).



Note: Operating Mode: The unit retains the last user configured operating mode when power cycled. i.e. If the unit was running in Continuous Mode, and then power is cycled, the unit would still remain in continuous mode.0



Turn the unit off by pressing the OFF Key. When the off key is pressed, the display will briefly show "SYSTEM IS POWERING DOWN". After the powerdown sequence is complete the display will be blank.

SIMPLE TO SET

Language Selection

After turning the unit ON and the Configuring System is complete, the Language Selection display will appear (if set to ENABLED).

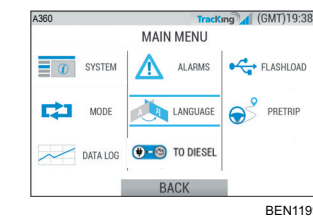
Note: English is the default language.



To change the language:

1. Use navigation keys to scroll to preferred language.
2. Press Accept/Change Key or Cancel.
3. The Standard Display with the chosen language will appear next.
 - Note:** If no key is pressed in language prompt for 45 seconds then the current language will be retained.

If Language Selection does not appear on startup, then Language change is not activated. Once you follow the steps below, this will activate the language changer.



To change the language:

1. Access the MAIN MENU by pressing the Accept/Enter Key.
2. Use the arrow keys to access LANGUAGE.
3. Use arrow keys to choose language and press the Accept/Enter Key.
4. Exit the Main Menu.