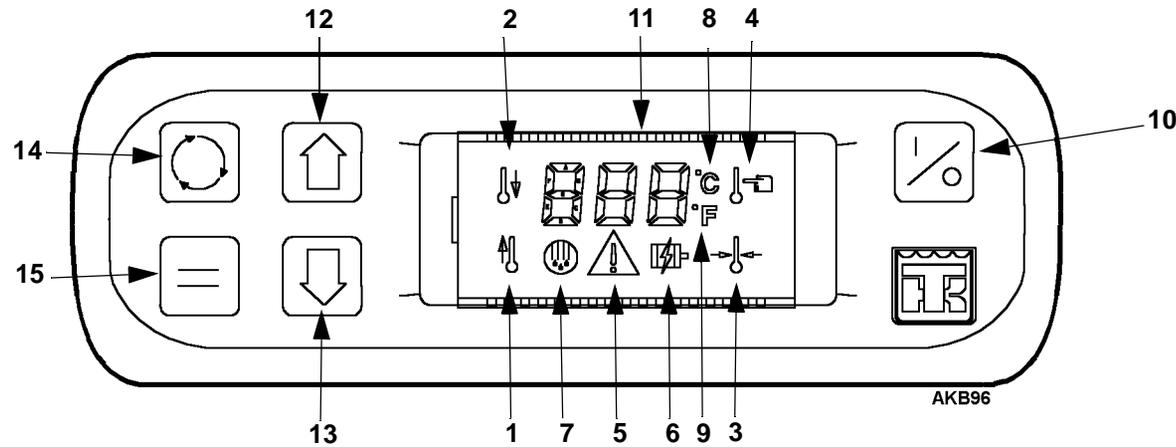


Small Truck In-Cab Controller



LCD Display Descriptions

- 1. Heat Icon**
This symbol indicates the unit is in the heat mode.
- 2. Cool Icon**
This symbol indicates the unit is in the cool mode.
- 3. In-Range Icon**
This symbol indicates the unit is operating within the standard temperature range.
- 4. Setpoint Icon**
This symbol indicates the setpoint temperature is being displayed.
- 5. Alarm Icon**
This symbol indicates an alarm fault condition has been detected by the controller.
- 6. Electric Standby Icon**
This symbol indicates the unit is in electric standby.
- 7. Defrost Icon**
This symbol indicates the unit is performing a defrost.
- 8. Degrees C Icon**
This symbol indicates the temperature being displayed is in degrees Celsius.
- 9. Degrees F Icon**
This symbol indicates the temperature is being displayed is in degrees Fahrenheit.

Keypad Descriptions

- 10. ON/OFF Key**
Used to turn the unit ON and OFF.
- 11. LCD Display**
Displays selected screens. It is active only when the unit is turned on. The return air sensor temperature normally appears on the display.
- 12. UP ARROW Key**
Used to select data before entering it into the controller.
- 13. DOWN ARROW Key**
Used to select data before entering it into the controller.
- 14. SELECT Key (cycling arrows)**
Used to select the various displays which can appear on the display screen.
- 15. ENTER Key (equals sign)**
Used to enter new information into the controller.



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

Simple To Start Vehicle Operation

1. Start the vehicle engine.
2. Press the ON-OFF key to prompt the unit controller.
3. Check the setpoint, and adjust if needed. See Entering Setpoints below.

NOTE: At this point, the unit controller will automatically turn on and off with the ignition key.

NOTE: Once the unit controller has been programmed, unit operation is fully automatic.

Simple To Start Electrical Standby

1. If operating in electrical standby, first turn OFF the unit controller, then turn OFF the vehicle, and then turn OFF the external power source.



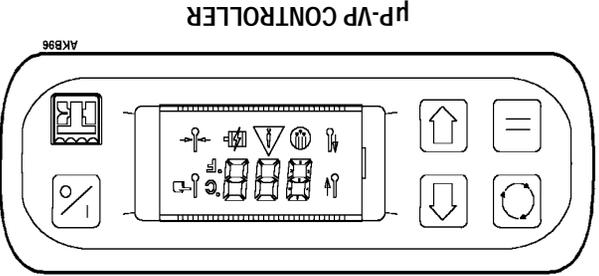
WARNING: HIGH VOLTAGE. Always turn off the external power source before handling, connecting or disconnecting cables to external power.

2. Connect the power cable to the units receptacle.
3. Turn ON the external power source.
4. Turn ON the unit controller. The electric standby icon will appear on the display and remain steadily lit.

Simple To Set Entering Setpoints

1. Press the ON-OFF key to prompt the unit controller.
2. Press the SELECT Key once to display the setpoint.
 - a. If a number appears on the screen with the alarm icon, an alarm code exists, and must be cleared. See Alarm Codes before proceeding with entering the setpoint.
 - b. If "dEF" appears on the screen, press the SELECT key again. The setpoint will appear on the display.
3. Press the ENTER key. The setpoint temperature will flash.
4. Press the UP and DOWN arrow keys to select the new setpoint.

Press the ENTER key to load the new setpoint into memory. "Lod" will appear on the screen for a few seconds, then the new setpoint will flash for a few seconds. The display will cycle back to the default display (return air temperature), and operate using the new setpoint.



pP-VP CONTROLLER

Small Truck In-Cab Controller Operating Guide

Simple To Start Simple To Run

- In-Cab Controller Descriptions
- Entering Setpoints
- Access Alarm Codes
- Start - Vehicle Operation
- Start - Electric Standby

Simple To Access Alarm Codes

Alarm Code Levels

There are three alarm categories: log, check and shutdown.

LOG: At this level, the alarm icon will display for 30 seconds after the unit is turned ON. The unit will still operate normally.

CHECK: At this level, the alarm icon will be full ON and notifies the operator that something has happened to the system and operation may be impaired. The unit will still operate.

SHUTDOWN: At this level, the alarm will flash, along with the rest of the display, and the unit will be shutdown.

Clear Alarms

The unit controller will only display the alarm(s) when an alarm condition(s) exists.

1. Correct the alarm condition.
 2. Press the ENTER key to clear the alarm that is displayed. The display digits will blank-out for one second, and if no other alarms exist, "00" will be shown.
- NOTE: If there are multiple alarms, each alarm will be displayed for two seconds.**

King technician.

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

Simple To Access Alarm Codes

Alarm Code Descriptions

Alarms are displayed by two-digit code numbers. The following alarm codes coincide with the following conditions.

- 02 There has been no valid reading from the coil sensor for 10 consecutive seconds. Check. Clearable on any alarm screen.
- 03 There has been no valid reading from the return air sensor for 10 consecutive seconds. Check. Clearable on any alarm screen.
- 08 The unit is operating off of the coil sensor because the return air sensor failed. Check. Clearable on any alarm screen.
- 09 The coil sensor reading exceeded 155 F and stayed above 150 F for 10 minutes. Shutdown. Clearable on any alarm screen.
- 12 The digital inputs have not stabilized after 100 consecutive readings (10 seconds). Shutdown. Clearable on any alarm screen. -OR-
- 38 The electric overload input is high for two seconds when the electric motor should be ON. Shutdown. This alarm will self-clear when the ON/OFF switch is cycled or the main power to the control is cycled.
- 70 Any of the hourmeter values has exceeded 99,999 hours. Log. Clearable on any alarm screen. -OR- An unsuccessful write to an hourmeter EEPROM location occurred. Log. Clearable on any alarm screen.
- 74 An initialization start has occurred. This can occur when software is changed, the unit has an EEPROM checksum error, the cold start digital input is low on a reset or a factory initialization start serial command is sent. Check. Clearable only on super guarded access alarm screen.
- 77 An unsuccessful write to the EEPROM location, other than an hourmeter, occurred. Factory. Clearable only with a cold start.