

## CoreLink™

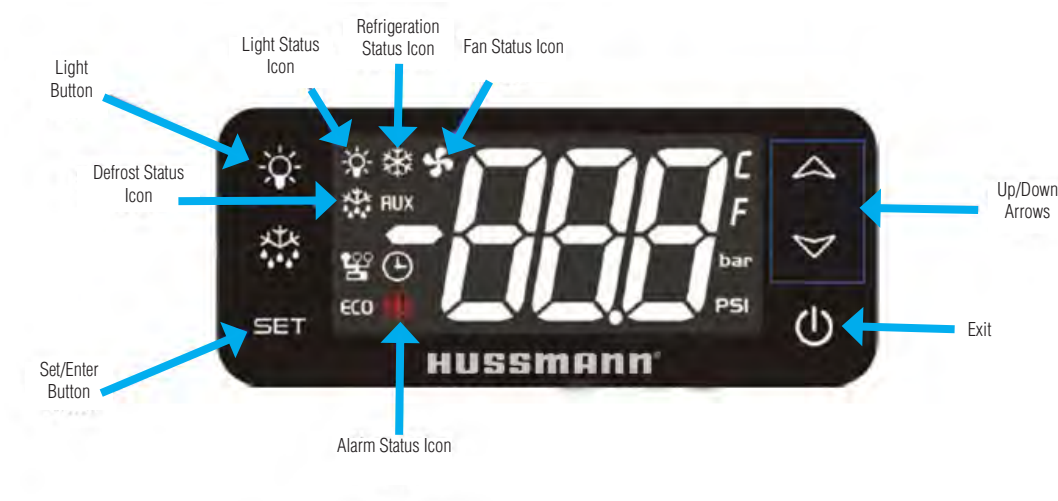
### Display Manual



### IMPORTANT

Keep with controller for future reference!

### Operation Manual



## CoreLink Display

Key Display Features Include:

- Exit button
- Up/Down arrows for navigation
- Case light on/off button
- Various helpful status indicators during normal refrigeration
- Dedicated Set/Enter button
- Built-in alarm for notifications

## Power Up Sequence

First time power up displays:  $\text{noL}$

$\text{noL}$  Indicates “no communication” between the display and CoreLink

$\text{noL}$  Displays until the CoreLink starts to communicate with the display a few seconds after power up.

Once communication is established between the display and CoreLink, the display will run a self test and then display the firmware version. The display will next show the default display after the reboot process completes.

## Default Display

Shown below is the default display view. After boot up and successful connection to the CoreLink, the display will show case temperature and system status on the lefthand side.




## Menu Options and Navigation

### 1. Display Menu

The Display Menu is used to read sensor values.

 Menus are navigated with the **UP/DOWN** arrow buttons.

Use the  arrow to scroll through the three main top-level menus: the **Display Menu** ( $d \ i5$ ), **Override Menu** ( $\overline{O}r$ ) and **Configuration Menu** ( $\overline{C}F\overline{C}$ ).

Press the SET button to access the Display Menu when  $d \ i5$  is shown. Press SET again to show the sensor value. Default menu option is Discharge air 1 temperature display.


DISPLAY MENU OPTIONS		Refrigerant Type	Options
Discharge air 1	dR1		1 = R22
Discharge air 2	dR2		2 = R407C
Discharge air 3	dR3		3 = R134A
Return air 1	rR1		4 = R410A
Return air 2	rR2		5 = R404A
Return air 3	rR3		6 = R507A
Default temperature 1	dt1		7 = CO2
Default temperature 2	dt2		8 = R407A
Default temperature 3	dt3		9 = R407F
Cool outlet 1	CO1		10 = R448A
Cool outlet 2	CO2		11 = R448A
Cool outlet 3	CO3		12 = R513A
Superheat 1	SH1		13 = R450A
Superheat 2	SH2		14 = R438A
Superheat 3	SH3		15 = R290
PSI	PSI		
Refrigerant type	rFt		





### 2. Override Menu

The Override Menu is used to turn on/off digital outputs, start/stop defrost cycles and to reboot the controller.

**EXIT MENU** Press UP arrow and SET button at same time to exit any menu and return to previous menu.

Select this menu by pressing SET when  $\overline{O}r$  is displayed. Use  arrow to scroll to  $\overline{2}$  and press SET to enter configuration. First override menu displayed will be Fans ( $FAn$ ). Use arrows to select other parameters.

- Press  arrows to scroll through Override Menu options.
- Press SET to view parameter of selected option.
- Press and hold SET for 5 seconds to edit the new override parameter value.
- Use  arrows to enter a new override parameter value. Press SET to accept value.
- New value will flash once accepted
- Press SET to exit Override Menu



OVERRIDE MENU OPTIONS	
Fans	FAn
Lights	LiE
Refrigeration 1	rEF
Defrost start	InI
Defrost stop	dtR
Reboot controller	bYE



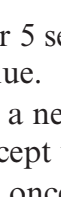

OVERRIDE PARAMETERS	
1	ON
0	OFF
-1	CoreLink Control



### 3. Configuration Menu

The Configuration Menu is used to modify setpoints and set the BACnet address.

**EXIT MENU** Press UP arrow and SET button at same time to exit any menu and return to previous menu.

Use the  arrow buttons to navigate to the main top-level Configuration Menu.

Select this menu by pressing SET when  is displayed. Use  arrow to scroll to  and press SET to enter configuration. First config. menu displayed will be Discharge air setpoint 1 (). Use arrows to select other parameters.

- Press  arrows to scroll through Configuration Menu options.
- Press SET to view configuration of selected option.
- Press and hold SET for 5 seconds to edit the new parameter value.
- Use  arrows to enter a new parameter value. Press SET to accept value.
- A new value will flash once accepted.
- Press SET to exit Parameter Menu.



#### CONFIGURATION MENU OPTIONS

Discharge air setpoint 1	SP1
Discharge air setpoint 2	SP2
Discharge air setpoint 3	SP3
Deadband	db
Superheat setpoint 1	SS1
Superheat setpoint 2	SS2
Superheat setpoint 3	SS3
Defrost Intervals	Int
Defrost Type	dFt
Min defrost duration	dIt
Max defrost duration	dDt
Fan Control mode	FC
Modbus address	Rdd
Mac address	bBc
Device Id	dId

Defrost Type	dFt	Options
		0 = Electric
		1 = Hot Gas
		2 = Modular Defrost
		3 = Electric Defrost- Individual Coils
		4 = Off Cycle Defrost
		5 = None




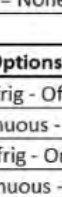

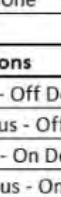


Fan Control Mode	FC	Options
		0 = On Refrig - Off Defrost
		1 = On Continuous - Off Defrost
		2 = On Refrig - On Defrost
		3 = On Continuous - On Defrost

## CoreLink Display Usage Examples

### How to change a setpoint:



From the Hussmann display, superheat and refrigeration setpoints can be set.

1. If not at the main top-level menu, press  +  together repeatedly until reaching the main top-level menu.
2. Press the  arrow until Configuration () is displayed and press SET.
3. Use  arrow to enter , then press SET to enter the Configuration Menu.
4. Press  arrows to scroll until desired parameter is shown.
5. Press SET to view the parameter setpoint.
6. Press and hold SET for 5 seconds (setpoint will flash on the screen when this step is complete).
7. Use the  arrows to select the new setpoint.
8. Press SET when the displayed setpoint is correct. The number will flash on the screen if this step was done correctly.

### How to start a defrost:

The digital outputs of the CoreLink can be controlled directly from the display. The display can be used to override the options listed in the table.



OVERRIDE MENU OPTIONS	
Fans	FRn
Lights	Lt t
Refrigeration 1	rEF
Defrost start	ln l
Defrost stop	dt r
Reboot controller	bYE

1. If not at the main menu, press + repeatedly until reaching the main top-level menu.
2. Press the up arrow to select the Override Menu ().
3. Press SET with displayed.
4. Use arrows until the number 2 is shown, and then press SET.
5. Use the arrows until Defrost start ( ) is shown on the display.
6. Press SET to show the current override status.
7. Press and hold SET for 5 seconds to enter Defrost Edit Mode, you will now be able to enter an override code (the current value will flash when this step is complete).

OVERRIDE PARAMETERS	
1	ON
0	OFF
-1	CoreLink Control

8. Use the arrows until 1 is displayed ( 1 means the selected output will be turned on).
9. Press SET with 1 displayed to accept the new value. The number on the display will flash when done correctly. The Defrost Status Icon will now appear on the display main menu as the case enters a defrost.







Use the same method above to turn on/off any of the other outputs available in the Override Menu.

### How to stop a defrost:



To stop a defrost and return the case to refrigeration mode, repeat steps 1-9 above, but select the menu at Step 5 to send a Defrost Stop () command to the CoreLink.

## How to set a network address:

From the display, you can view and change the connected CoreLink's Modbus and BACnet addresses.

1. If not at the main menu, press  +  together repeatedly until reaching the main top-level menu.
2. Press the  arrow to select the Configuration Menu (CFG).
3. Use  arrows to select *l* and press SET to enter the Configuration Menu (CFG).

### *Modbus*




4. Press  arrows until *Addr* is shown, then press SET to view the current Modbus address setting.
5. To change the Modbus address, press and hold SET for 5 seconds to enter the network address edit mode.
6. Use the  arrows to enter a new address and press SET to save the new address (The new address will flash on the screen when this step is complete).

### *BACnet*

7. To edit the CoreLink's BACnet address, repeat Steps 4, 5, and 6, but select *BAC* from the menu at Step 4.

## How to reboot the controller

From the display, you can reboot the controller with a simultaneously two button push

1. If not at the default display, press  to navigate to default display
2. Press the light and exit button  +  simultaneously for 5 seconds
3. The display will immediately show 0
4. Controller will reboot, view controller yellow status LED to confirm reboot sequence
5. Display will show default display
6. Display will automatically reboot, then show default display again
7. Reboot complete