

HUSSMANN®

CoreLink™

Electronic Display Case Controller



CoreLink – E2 Integration Quick Start Manual

IMPORTANT

Keep with controller for
future reference!

P/N 3128012_A

July 2020

MANUAL SUPPLEMENT - CORELINK CASE CONTROLLER

English

SAFETY



BEFORE YOU BEGIN
Read these instructions completely and carefully.



PERSONAL PROTECTION EQUIPMENT (PPE)

Personal Protection Equipment (PPE) is required whenever servicing refrigeration equipment. Always wear safety glasses, gloves, protective boots or shoes, long pants, and a long-sleeve shirt when working with this equipment.

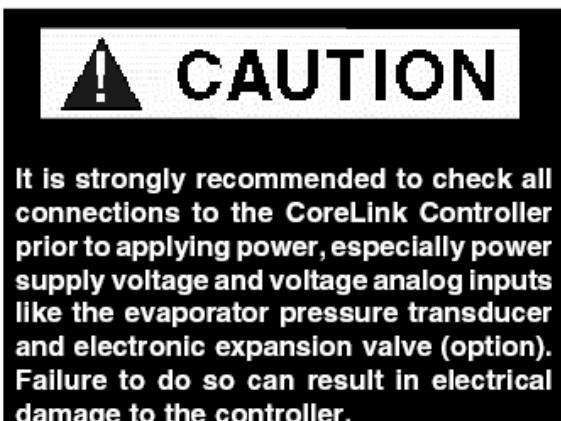


Electrostatic discharge (ESD) is the sudden flow of electricity between two electrically charged objects caused by contact, an electrical short, or dielectric breakdown.



Hussmann recommends industry workers use antistatic wrist straps, ESD wrist strap, or ground bracelet when working on electronic devices which can be damaged by ESD. Please consult chosen strap literature for best practices for usage.

Hussmann reserves the right to change or revise specifications and product design in connection with any feature of our products. Such changes do not entitle the buyer to corresponding changes, improvements, additions or replacements for equipment previously sold or shipped.



REVISION HISTORY

Rev. No	Revision Date	Notes
0	06-26-2020	Initial Published Release

ANSI Z535.5 DEFINITIONS

- **DANGER** – Indicate[s] a hazardous situation which, if not avoided, will result in death or serious injury.
- **WARNING** – Indicate[s] a hazardous situation which, if not avoided, could result in death or serious injury.
- **CAUTION** – Indicate[s] a hazardous situation which, if not avoided, could result in minor or moderate injury.
- **NOTICE** – *Not related to personal injury* – Indicates[s] situations, which if not avoided, could result in damage to equipment.

PROPOSITION 65 WARNING



This warning does not mean that Hussmann products will cause cancer or reproductive harm or is in violation of any product-safety standards or requirements. As clarified by the California State government, Proposition 65 can be considered more of a 'right to know' law than a pure product safety law. When used as designed, Hussmann believes that our products are not harmful. We provide the Proposition 65 warning to stay in compliance with California State law.

DISCLAIMER

THIS QUICK START MANUAL IS NOT A GENERIC MANUAL AND IS BASED ON LATEST LESSONS LEARNED AND BEST PRACTICES WHERE HUSSMANN PRODUCTS ARE USED. FURTHERMORE, IT IS APPLICABLE ONLY TO THE PRODUCTS FITTED WITH EMERSON DESIGNED AND OWNED CONTROLLERS: E2 RX REFRIGERATION CONTROLLERS AND HUSSMANN CORELINK CONTROLLERS. THE INTENT OF THIS MANUAL IS TO GIVE DETAILS ON CONTROLLER INTEGRATION AND QUICK START UP.

THIS DOCUMENT IS NOT AN OFFICIAL TECHNICAL SERVICE BULLETIN RELEASED BY THE ENGINEERING DEPARTMENT OF COMPUTER PROCESS CONTROLS/EMERSON/HUSSMANN. THE INFORMATION DOES NOT PERTAIN TO ALL FIRMWARE, SOFTWARE, AND/OR HARDWARE REVISIONS.

THESE TIPS ARE PROVIDED AS A FREE SERVICE BY HUSSMANN AND NO ASSUMPTION OF ACCURACY OR LIABILITY SHOULD BE IMPLIED OR ASSUMED.

TECHNICAL SUPPORT

FOR TECHNICAL SUPPORT WITH CORELINK CONTACT:

- EMAIL: CORELINK.SUPPORT@HUSSMANN.COM
- HUSSMANN CALL CENTER: 1-800-592-2060
- HUSSMANN PARTS: 1-855-478-7778

FOR EMERSON E2 TECHNICAL SUPPORT CONTACT:

- EMAIL: SOLUTIONSTECHSUPPORT@EMERSONCLIMATE.COM
- EMERSON TECHNICAL SUPPORT: 1-800-829-2724

TABLE OF CONTENTS

1.	OVERVIEW & PREREQUISITES.....	1
2.	CoreLink – E2 Integration	2
2.1	Power Wiring.....	2
2.2	Network Wiring	3
2.3	CoreLink to E2 Via UltraSite.....	5
2.4	How to Upload Hussmann Description file to E2.....	6
2.4.1	Steps for Uploading description file	6
2.5	Reboot E2.....	7
2.6	How to Enter E2 License Key.....	8
3.	How to add additional CoreLink to E2	11
4.	How to address CoreLink on E2 device.....	13
5.	Initial Setting confirmation for E2-CoreLink.....	19
5.1.	C1 General.....	19
5.2	Status page, F4: Status page	19
5.3	System Data : C0: More , System Data.....	21
5.4	Alarm setpoints, C4: AlarmSetpts	22
5.5	Sensor connection, C2: Outputs-in.....	23
5.6	Refrigeration configuration,C0: More : Refrigeration.....	25
5.7	Defrost configuration setting, C7: Defrost	27
5.7.1	How to Schedule A Defrost in connected CoreLink	28
5.8	Super Heat setting, C0: More: Superheat	30
5.9	Valve Parameter, C0: More : Valve	31

5.10	System parameters, C0: More: Output – SysD.....	33
5.11	Alarm List &Priority, C0: More, Alarms Outs:	34
5.12	Override Selection, C9: Overrides	36
5.13	Fan setting, C8: Fans	37
5.14	Network Input control, C6: Inputs-NET	38
5.15	Antisweat config, C5: Antisweat	39
5.16	Digital output, C3: Outputs – Out.....	40
5.17	How to create CASE LIGHTS time schedule	42
6.	Troubleshooting E2-CoreLink Integration.....	45

1. OVERVIEW & PREREQUISITES

The CoreLink Case Control System consists of Application Programming Modules (example: App Version 3.0.0 and 2.6.0) and physical Input/Output ("I/O") that work together to control the various functions in each case or walk in cooler/freezer. These programming modules control refrigeration, defrost, evaporator fan, case lighting, and electronic expansion valves. The refrigeration system control network includes the Emerson E2 RX controller and CoreLink controllers at each case and/or walk in cooler/freezer. In the E2 programming, each CoreLink controller can be added via UltraSite or via the front E2 panel. The E2 can then be used to monitor the status of each case alarm, scheduling, and any other circuit level control value.

Compatibility between the E2 and the CoreLink controller can be verified based on the following:

CoreLink Application	E2 Description Revision
Versions below 2.6.0	5270551 Revision 4
2.6.0 or above	5270551 Revision 5

The CoreLink application version is visible in the System Tab of the WebUI to confirm version

Note – All the screen shots in the document are captured using latest Revision of the description file.

Hussmann reserves the right to change or revise specifications and Product design in connection with any feature of our products. Such changes do not entitle the buyer to corresponding changes, improvements, additions or replacement for equipment previously sold or shipped

The CoreLink case controllers are already preloaded with configurations and setting as per case or walk-in product specifications. However installation guidelines of CoreLink can be downloaded from https://www.hussmann.com/ns/Technical-Documents/0557046_A_Corelink_IO_EN.pdf

The installation guidelines of E2 RX refrigeration controller can be downloaded from
<https://climate.emerson.com/documents/1621-quick-start-guide-for-rx-refrigeration-bx-hvac-cx-convenience-store-controllers-en-5375986.pdf>



CAUTION: IT IS STRONGLY RECOMMENDED TO CHECK ALL CONNECTIONS TO THE CORELINK CONTROLLER PRIOR TO APPLYING POWER, ESPECIALLY POWER SUPPLY VOLTAGE AND VOLTAGE ANALOG INPUTS LIKE THE EVAPORATOR PRESSURE TRANSDUCER AND ELECTRONIC EXPANSION VALVE (OPTION). FAILURE TO DO SO CAN RESULT IN ELECTRICAL DAMAGE TO THE CONTROLLER.

2. CoreLink – E2 Integration

This section details the integration between the Hussmann CoreLink case controller and the Emerson E2 controller. This includes power wiring, network wiring, software connections, E2 description files, and E2 license keys.

2.1 Power Wiring

In most cases it is the responsibility of the Electrical Contractor (EC) to install the power wiring for the cases and walk- ins as well as the Modbus and LAN communications cables. The Refrigeration Contractor terminates the communication cabling. Figures (1.1) & (1.2) shows a reference wiring diagram for Hussmann Insight cases. These diagrams are subject to change at any time without notice due to continuous development. For changes and for other cases, please contact Hussmann engineering.

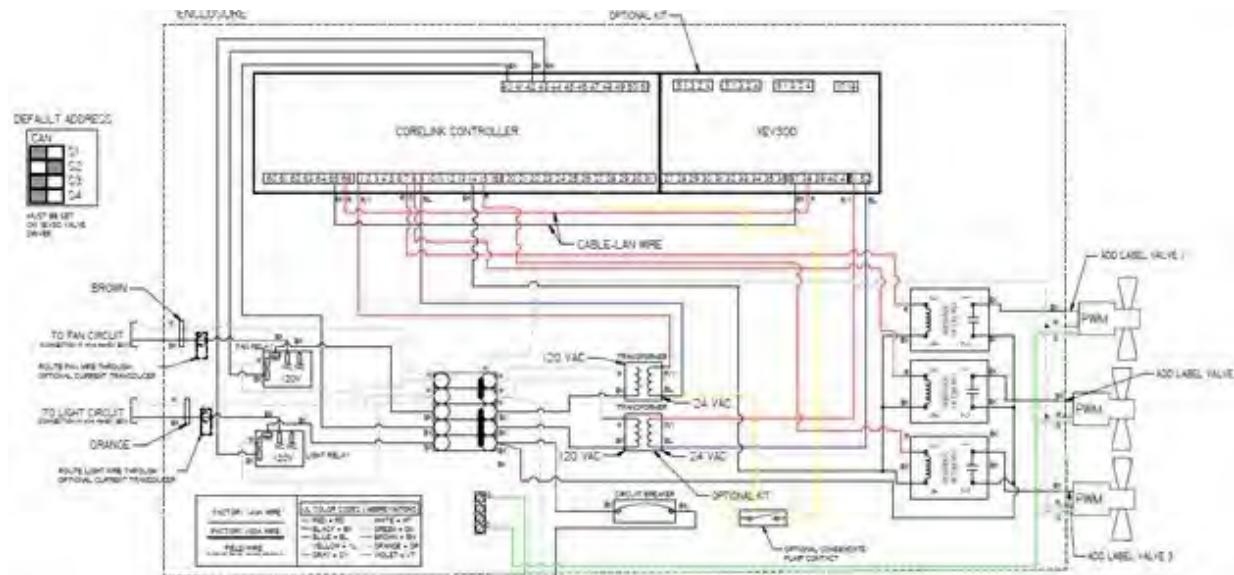


Figure 1.1: Power Wiring

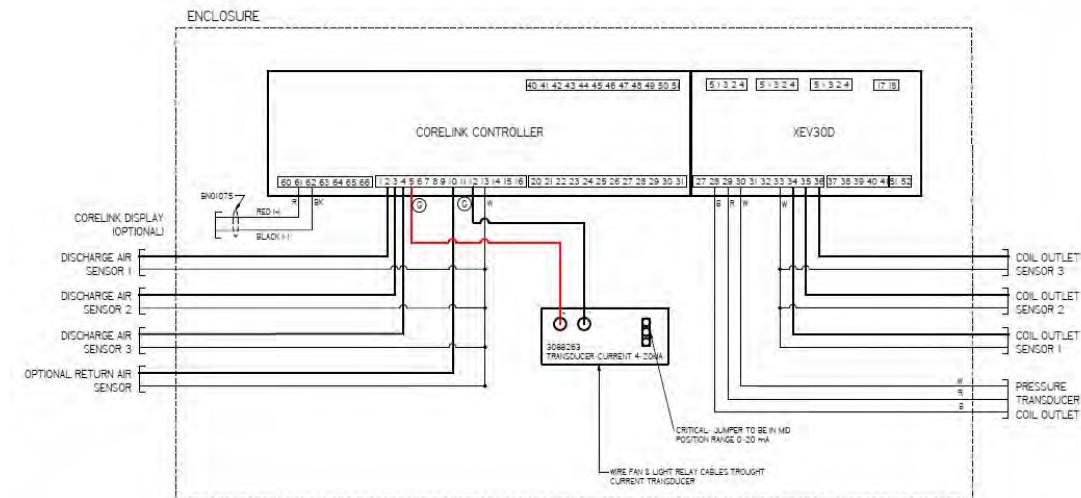


Figure 1.2: Sensors, Transducers, Valves

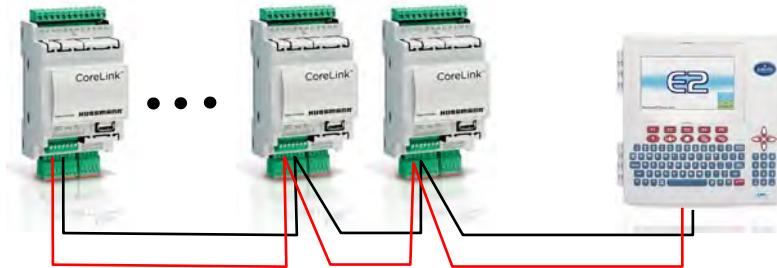
2.2 Network Wiring

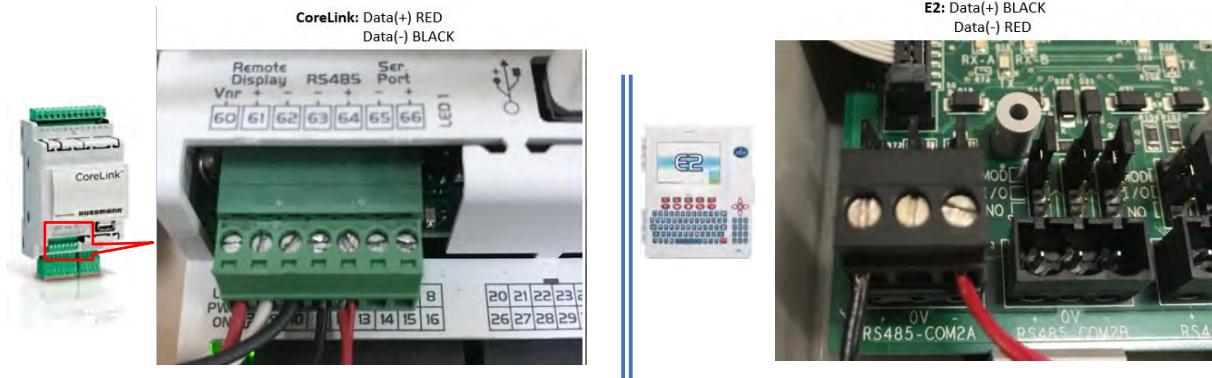
This section details the recommended communication wiring and termination for the CoreLink controller and the E2.

NOTE: Figures (2.1) and (2.2) represent the connection of the Modbus communication loop from CoreLink to the E2 communication port. It is recommended that this be left disconnected until programming and controller addressing has been configured and validated.

As per the site requirements, connect the max allowed CoreLink controller (Refer E2 manual for max number of CoreLinks) to E2 through Daisy chain connection as shown below

Daisy chain connection of CoreLink controllers to E2:



**Figure (2.1)****Figure (2.2)**

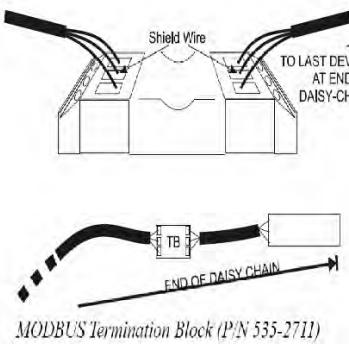
- The CoreLink – E2 connection is reverse polarity. The CoreLink RS485 Data “+” (Pin 64) connects to the red wire [Figure (2.1)]. This red wire connects to Data “-” at the E2 RS485 COM2A [Figure (2.2)].
- The CoreLink – E2 connection is reverse polarity. The CoreLink RS485 Data “-” (Pin 63) connects to the black wire [Figure (2.1)]. This black wire connects to Data “+” at the E2 RS485 COM2A [Figure (2.2)].



CAUTION: TO AVOID INCORRECT OR INVALID PARAMETERS BEING PASSED BETWEEN THE E2 & THE CORELINK CASE CONTROLLERS, LEAVE THE MODBUS TERMINAL AT THE IN E2 RS485 COM2A (REF FIG(II)) UNPLUGGED UNTIL ALL THE PROGRAMMING IN THE E2 HAS BEEN VERIFIED. FAILURE TO DO SO CAN RESULT IN ELECTRICAL DAMAGE TO THE CONTROLLER.

The daisy chain connection of RS485 network needs to be terminated properly for uninterrupted RS485 communication. Third-party devices which are integrated may or may not have onboard termination jumpers — consult the manufacturer's instructions for termination information.

If an end device does not have termination jumpers, Emerson / CPC offers a termination block that can be used to terminate MODBUS network endpoints (CPC P/N 535-2711). Connect this block just before the end device Fig(iii) and connect the shield to earth ground, keeping the exposed shield wire length as short as possible (3 inches ideal maximum length). Alternatively, the last CoreLink in Network can be terminated by connecting a RS485 termination resistor of Value 150Ω across CoreLink Pin 63, 64 .



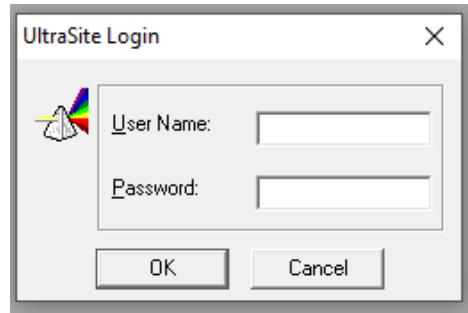
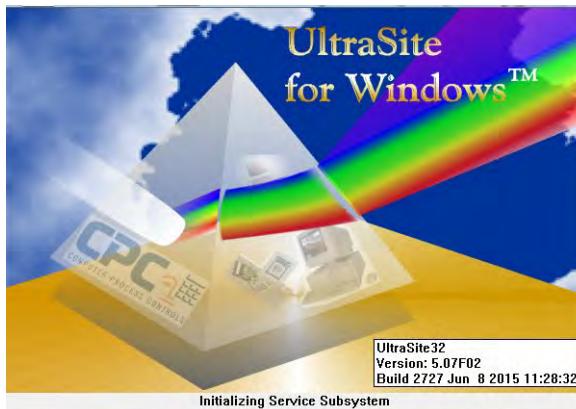
RS485 termination block (Option)



150Ω termination resistor

2.3 CoreLink to E2 Via UltraSite

Install Ultrasite 5.07F02 or above. Login using the Emerson provided username and password

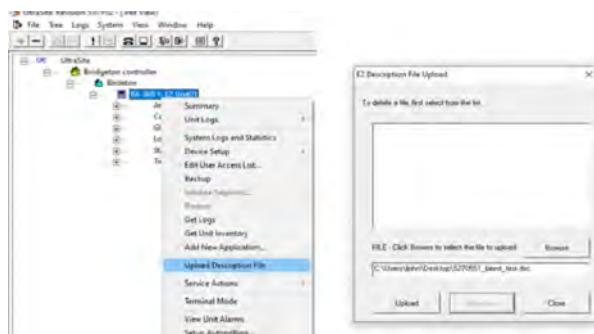


After connecting to the E2 via UltraSite, it may be necessary to create a Directory and add a Site in UltraSite. Configure the Site as necessary. Now the E2 is connected to UltraSite

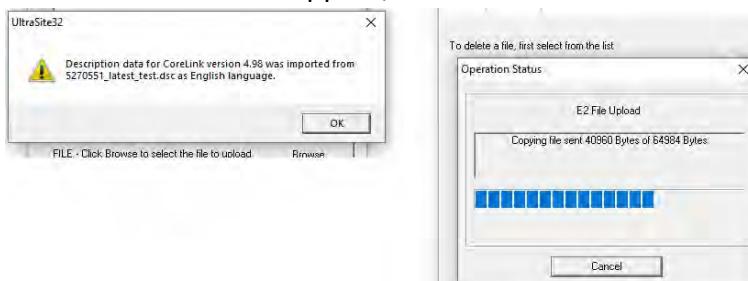
2.4 How to Upload Hussmann Description file to E2

2.4.1 Steps for Uploading description file

- Select customer & expand E2 target
- Right click E2 name
- Select Upload Description File
- Select Browse
- Locate and highlight description file (5270551.dsc) provided.
- Select Open



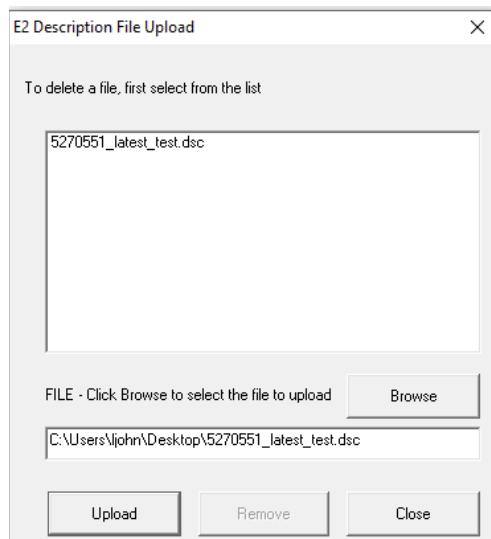
- Select Upload
- Confirmation screen will appear, select OK



- Confirm description file (5270551.dsc) is in uploaded list or above
- Select close. The description file (5270551.dsc) or above is loaded

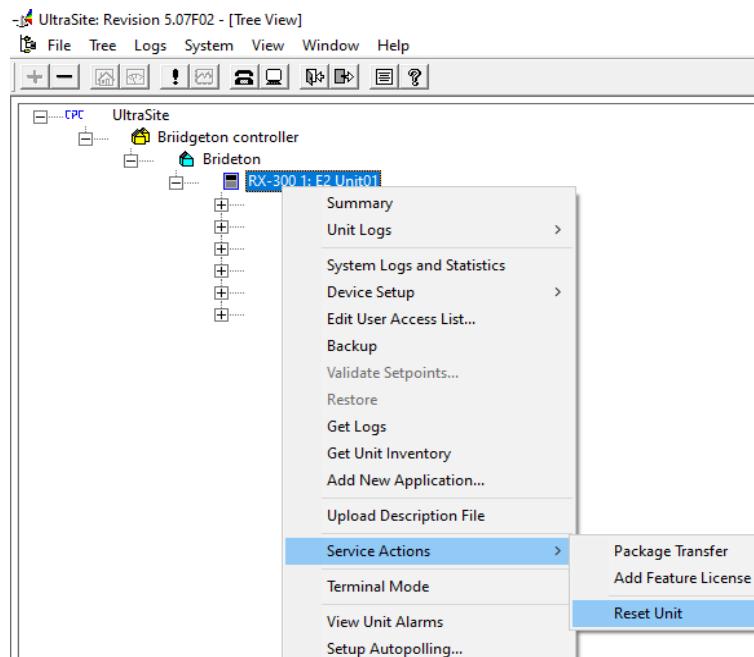


NOTE : ALL OPERATIONS AND INSTALLATION SHOULD ONLY BE CARRIED OUT BY QUALIFIED PERSONNEL.



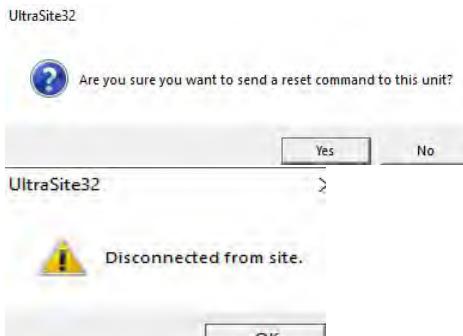
2.5 Reboot E2

- Right click E2 name
- Click on Service Actions
- Select Reset Unit



NOTE: AFTER LOADING DESCRIPTION FILE, E2 NEED TO BE RESTARTED AND ONCE THE E2 IS BACK TO OPERATION, CHECK THE UPLOADED DESCRIPTION FILE AS PER THE ABOVE SECTION.

- Warning screen will appear, select Yes
- E2 is disconnected and rebooting, select OK

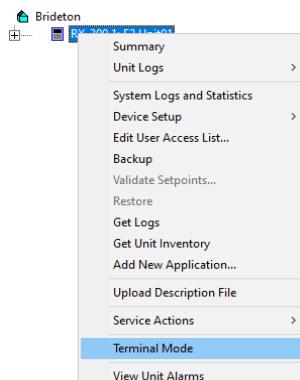


- Now, the E2 is loaded with latest description file and ready to load E2 license key.

2.6 How to Enter E2 License Key

- From the E2 device or UltraSite Terminal Mode

Right click E2 name & Select Terminal mode



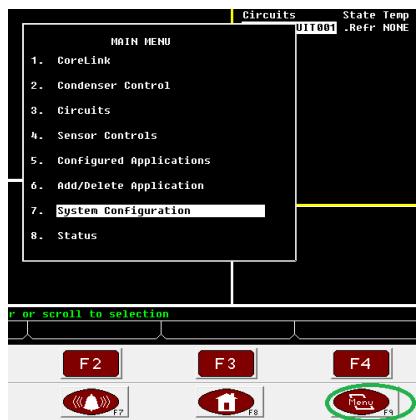
- Select Terminal mode and then select Login/Out



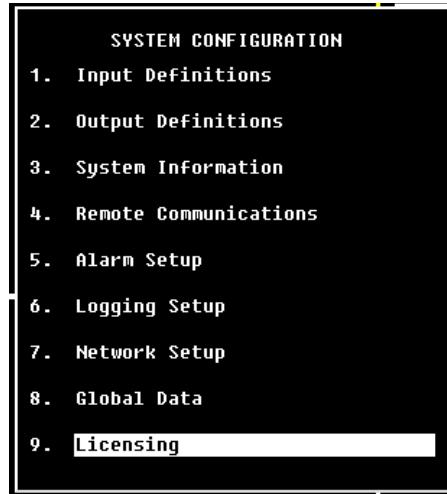
- In E2, Enter Emerson provided Username and Password



- Select Menu [Press : F9]
- Select System Configuration [7]



- Select Licensing [9]



- Select Add Feature [F1]

UltraSite: Revision 5.07F02 - [Terminal Mode - E2 Unit01]
File Tree Logs System View Window Help
06-19-20 RX-300 Unit
LICENSE REP

Licensed Features - 06/19/2020 - 00:54:40 - Rev: 4.0
For controller model type: RX-300

Feature	Maximum	In-Use
Time Schedule	64	7
Analog Combiner	128	2
Standard Circuit	48	1
Log Group	32	1
Area Controller	28	1
CoreLink	20	1
Digital Combiner	128	0
Heat/Cool Control	16	0
Holiday Schedule	64	0
HVAC Simulation	16	0
Analog Sensor Ctrl	64	0
Power Monitoring	16	0
Digital Sensor Ctrl	64	0
Conversion Cell	128	0
Pulse Accumulation	16	0
Digital Import Point	64	0
Analog Import Point	64	0
Rack Simulation	4	0

Lines 1 to 22 of 97
F1: ADD FEATURE

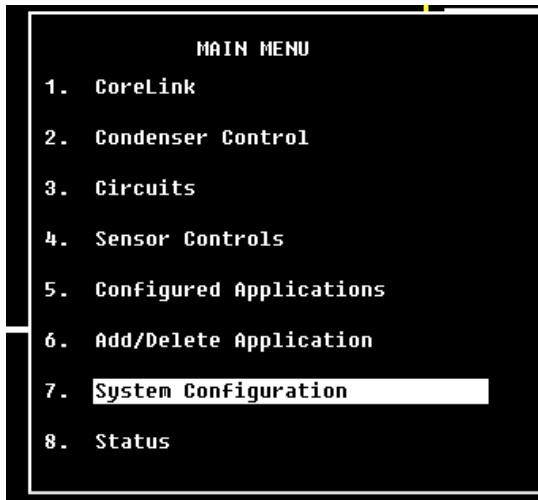
- Enter License key (Send E2's MAC address to Emerson to get License key)



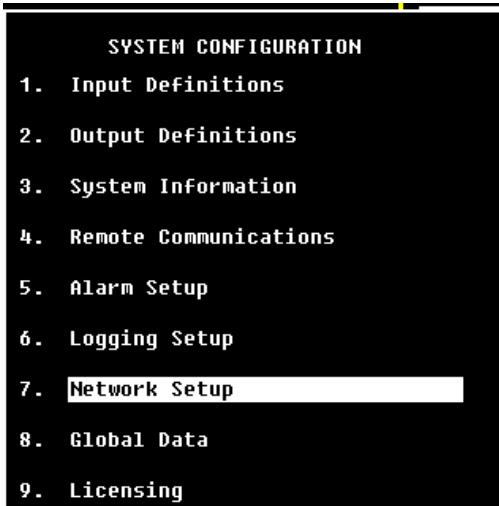
NOTE: SEND E2'S MAC ADDRESS TO EMERSON TO GET LICENSE KEY. CONTACT HUSSMANN ENGINEERING FOR DETAILS

3. How to add additional CoreLink to E2

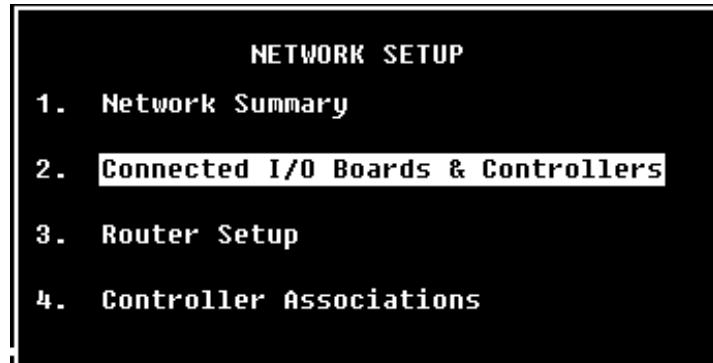
- From the E2 device or UltraSite Terminal Mode add controllers in E2
- Select Menu [F9]
- In main menu F9 go to System Configuration [7]



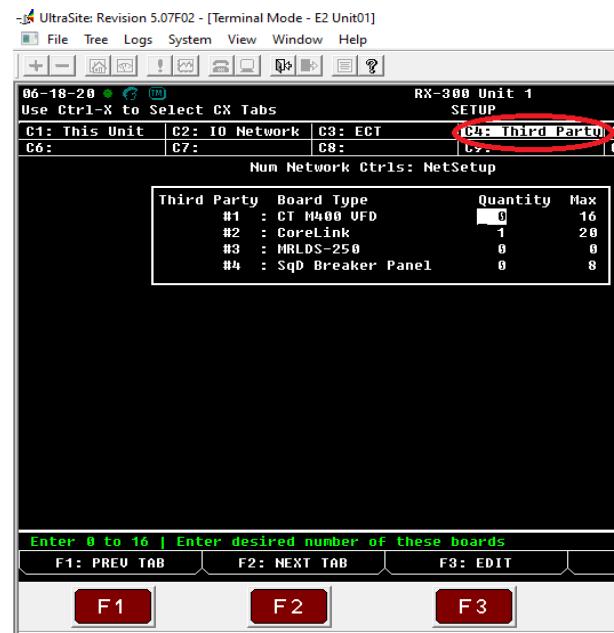
- Go to Network Setup [7]



- Move to Connected I/O Boards & Controllers [2]



- Select Next Tab [F2] or Ctrl-X (Ex:Ctrl4) until Third Party [C4] is highlighted

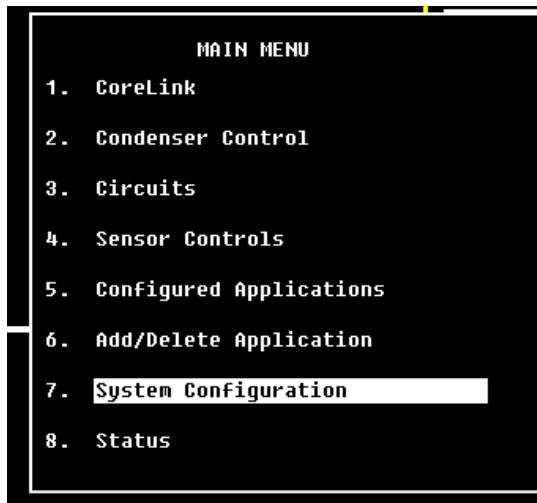


CAUTION: FOR SAFETY PURPOSE, ALWAYS MAKE SURE THAT THE DEVICE IS SWITCHED OFF BEFORE TOUCHING ELECTRICAL CONNECTIONS

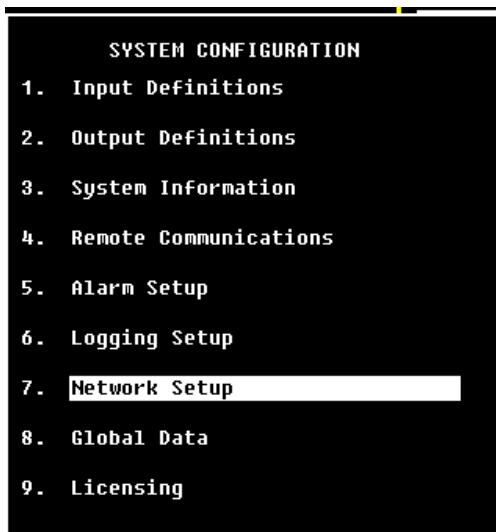
- Enter the number of CoreLink controllers being addressed (Quantity = number of controllers)
- Select Home [F8] to save changes
- Now the E2 is ready for the CoreLink integration

4. How to address CoreLink on E2 device

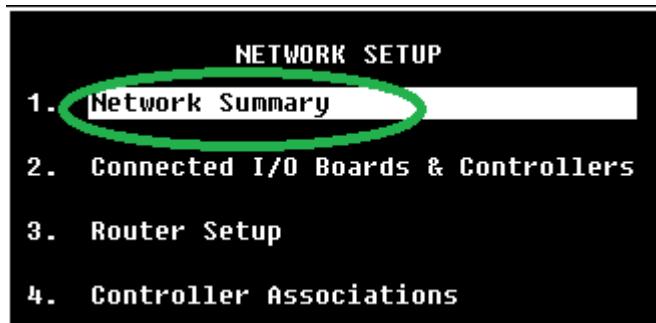
- From the E2 device or UltraSite Terminal Mode
- Select Menu [F9] & then, System Configuration [7]



- Network Setup [7]



- Network Summary [1]



- in Network Summary, E2 unit name, Type, Network Address, Revision, and Status is available to be added.
- From Network Summary screen, select one CoreLink controller and Select Commission [F4]



- Select MODBUS network device
- Enter designated MODBUS address for CoreLink controller and press Enter
- Select Back [F10], confirm controller is online
- Repeat steps 1 through 5 for all CoreLink controllers



NOTE: FOR NAVIGATION, PRESS F2 FOR NEXT TAB

- in Select Network Type, select MODBUS network



- Enter designated MODBUS address for CoreLink controller and press Enter



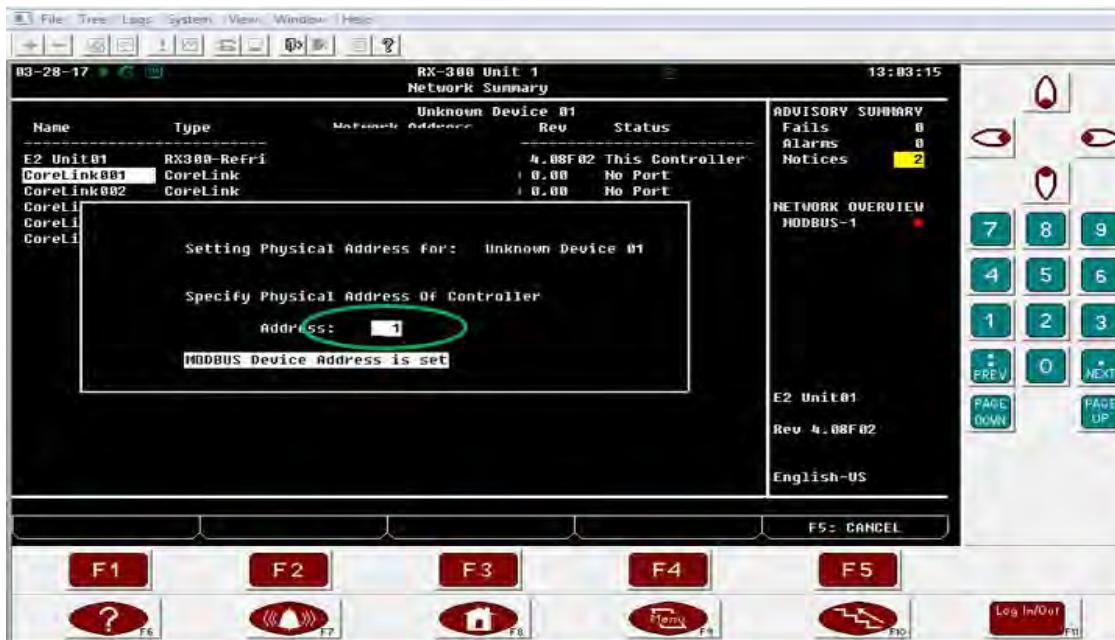
NOTE: DURING E2 NAVIGATION, PRESS MENU NUMBER OR SCROLL TO SELECTION

CoreLink™

- Enter designated MODBUS address for CoreLink controller and press Enter



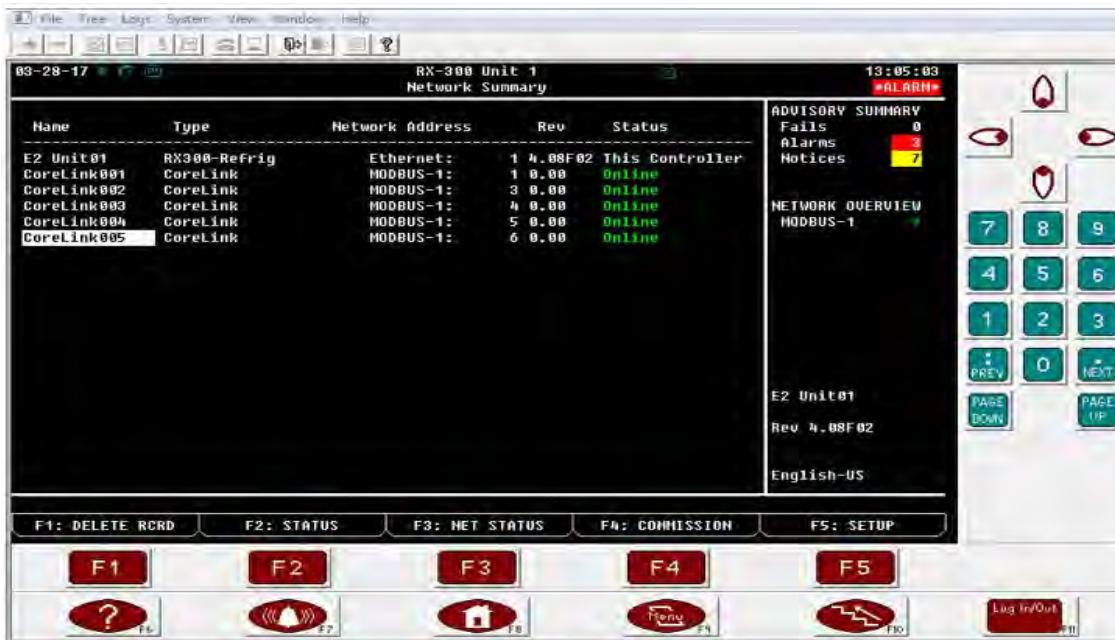
- Enter designated MODBUS address (eg:1) for CoreLink controller and press Enter



- Select Back [F10], to confirm specific CoreLink is online



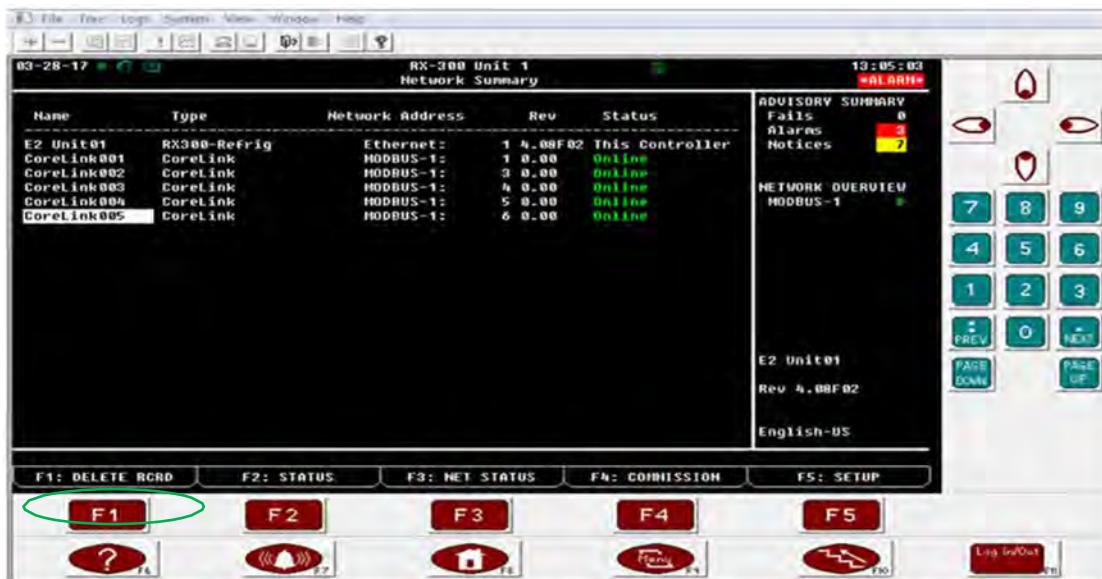
- Repeat the steps for Making all the CoreLink Online



- Now the integration of CoreLink with E2 is completed.

CoreLink™

- if we need to delete any CoreLink controllers from the E2, select the controller and Press F1 to delete the CoreLink



Note: If deleting the CoreLink from the Connected I/O and Controllers before going to the Network Summary, the E2 will delete the newest/highest node address CoreLink rather than the device chosen. In other words, if you have (5) CoreLink devices currently programmed in the E2 and you only need 4, but want to delete the 2nd addressed controller, you must start from the network summary and delete the record of the # 2 CoreLink. Otherwise, simply going to the ECT tab and changing the quantity from 5 to 4 will delete CoreLink # 5.

5. Initial Setting confirmation for E2-CoreLink

5.1. C1 General

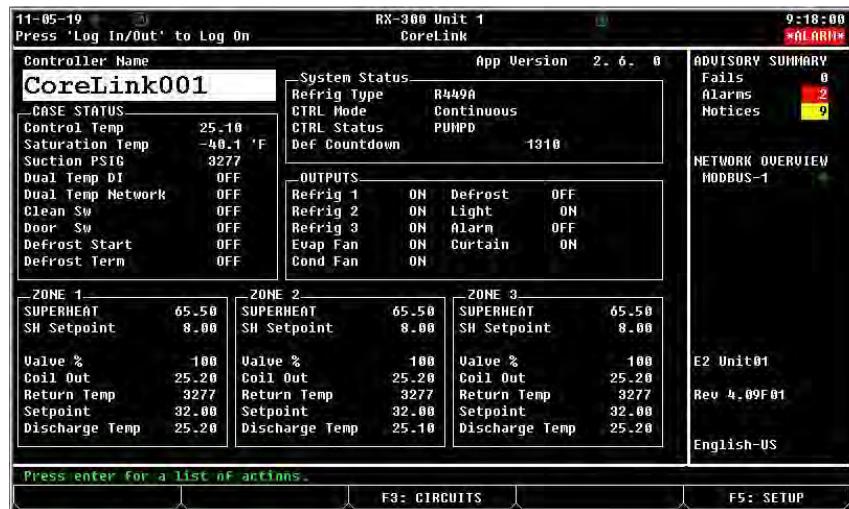
- Once logged in, Press F5 to select the SETUP



- Navigate to C1 General tab and check for correct device address, Description file Rev, (4.09F01 or above), change CfgSyn Action: to “Send Device cfg to E2” .
- Press F1 for Prev Tab, F2 for Next Tab , & F3 for edit, F4 for Status & F5 for Cancel.

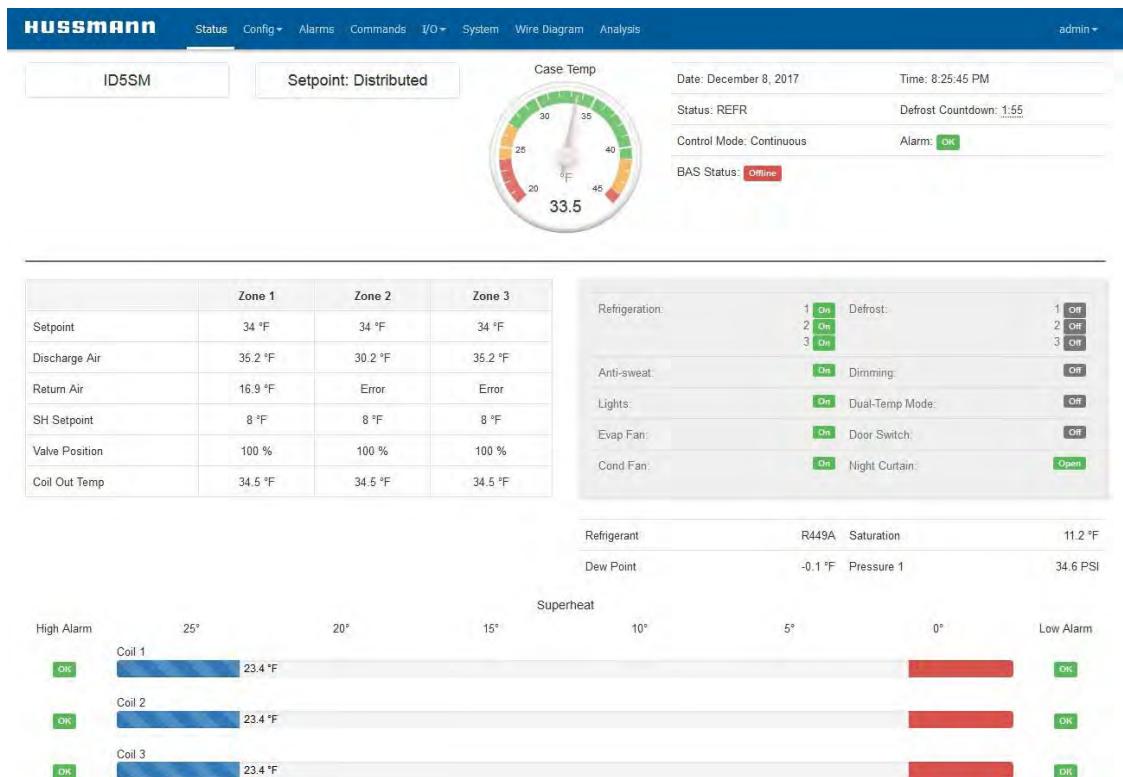
5.2 Status page, F4: Status page

Check the status page of E2 by pressing F4: status page



NOTE: BEFORE ENABLING COMMUNICATION TO CONTROLLERS CONFIRM, CFGSYN ACTION SET AS “SEND DEVICE CFG TO E2” AND INITIAL SYNC SET AS “NO” IN EACH CORELINK APPLICATION. FAILURE TO DO SO CAN RESULT IN LOST PROGRAMMING!

- Navigate to F4: Status page to check for the following list of parameters of E2 and verify the following
 - ✓ App version
 - ✓ Refrigerant type
 - ✓ CTRL Mode
 - ✓ CTRL status
 - ✓ Control Temp data continuously updated as in the WebUI,
 - ✓ Output status
 - ✓ SH setpoint for Zone 1, Zone 2 & Zone 3 are matching
 - ✓ Other sensor data



NOTE: CHECK ALL THE PARAMETERS ARE GETTING UPDATED IN THE E2 ARE NOT. IF NOT CHECK THE POLARITY OF CONNECTION, CORRECT WIRING OR CORRECT MODBUS PARAMETERS

5.3 System Data : C0: More , System Data

To change Temperature, Pressure and Light units, Refrigerant & Case Type, use this tab

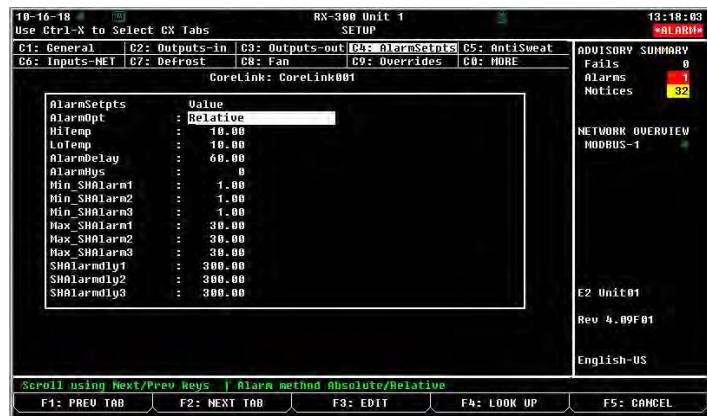


Navigate to C0: More and then to System Data to check 5 Read/Write description of temp, pressure & Refrigerant and case type as below. Check for correct data. If not press F3 to edit parameter list

E2 Parameter	Description	Range
TEMP_UNITS	Temperature units	0, "Celsius", 1, "Fahrenheit"
PRESS_UNITS	Pressure units	0, "PSI", 1, "BAR"
REFRIG_TYPE	GAS Type Selection	1, "R22", 2, "407C", 3, "R134A", 4, "R410A", 5, "404A", 6, "507C", 7, "CO2", 8, "R407A", 9, "R407F", 10, "R407F", 11, "R449A", 12, "R513A", 13, "R450A", 14, "R438A"
LIGHT_UNITS	Light measurement units	0, "FTC", 1, "LUX"
CASE_TYPE	Case Type Selection	0, "Rem Std", 1, "Rem Dist", 2, "Self Cont", 3, "Micro Dist"

5.4 Alarm setpoints, C4: AlarmSetpts

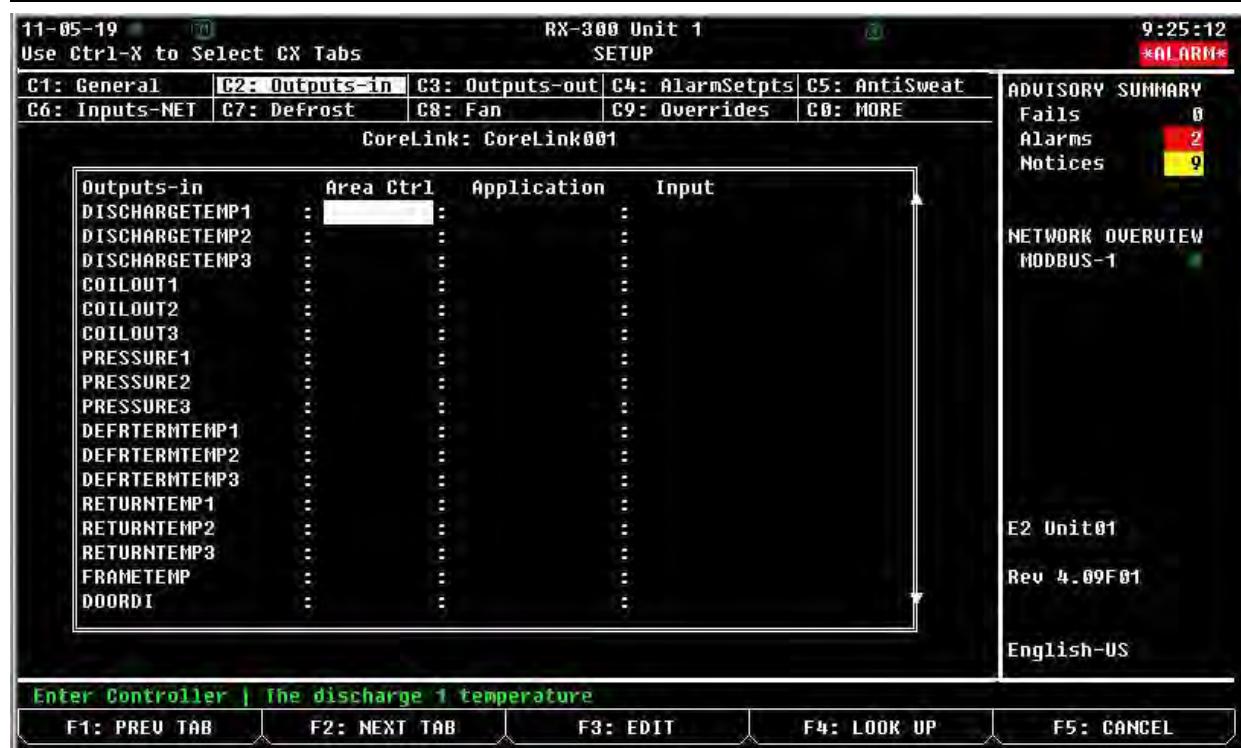
Navigate to alarm setpoints to change the Min and Max setpoints of various alarms



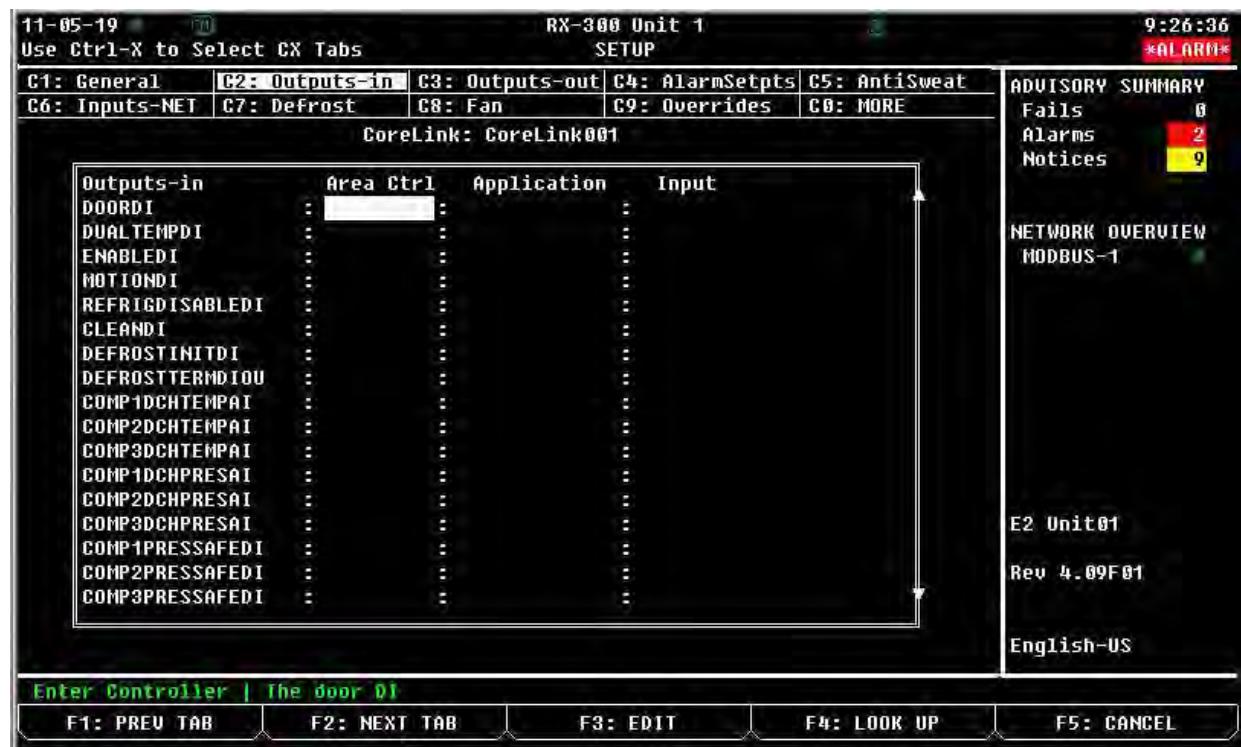
Navigate to C4: AlrmSetpts. check for Range as per the below table

E2 Parameter	CoreLink Parameter	Description	Range
AlarmOpt	Alarm Option	In an absolute alarm, the alarm parameter is the threshold for the alarm. In a relative alarm, the alarm setpoint is added to the parameters, and its sum becomes the alarm threshold.	0, "Relative", 1, "Absolute"
HiTemp	High Temp	Highest temperature the case may reach before the alarm starts.	(0 to 99) °F
LoTemp	Low Temp	Lowest temperature the case may reach before the alarm starts.	(-40 to 99) °F
AlarmDelay	Alarm Delay	Alarm Delay: Time delay before the alarm activated if there is a problem.	(0-255)min
AlarmHys	Alarm Hysteresis	Temperature margin from alarm setpoint in which the temperature must drop before the alarm shuts off.	(0 to 20)
Min_SHAlarm1	Min SH Alarm 1	Lowest superheat temperature possible before the alarm timer starts for coil one. After timer delay, valve is closed 0% to protect compressor. Anytime superheat goes above min SH alarm setpoint, the timer resets and the valve position will return to minimum position or current PID calculated position.	(-25 to 50) °F
Min_SHAlarm2	Min SH Alarm 2	Lowest superheat temperature possible before the alarm timer starts for coil two. After timer delay, valve is closed 0% to protect compressor. Anytime superheat goes above min SH alarm setpoint, the timer resets and the valve position will return to minimum position or current PID calculated position.	(-25 to 50) °F
Min_SHAlarm3	Min SH Alarm 3	Lowest superheat temperature possible before the alarm timer starts for coil three. After timer delay, valve is closed 0% to protect compressor. Anytime superheat goes above min SH alarm setpoint, the timer resets and the valve position will return to minimum position or current PID calculated position.	(-25 to 50) °F
Max_SHAlarm1	Max SH Alarm 1	Highest superheat temperature possible before the alarm starts for coil one. After timer delay, valve is opened 100%. Anytime superheat goes below max SH alarm setpoint, the timer resets and the valve position will return to current PID calculated position.	(-5 to 90) °F
Max_SHAlarm2	Max SH Alarm 2	Highest superheat temperature possible before the alarm starts for coil two. After timer delay, valve is opened 100%. Anytime superheat goes below max SH alarm setpoint, the timer resets and the valve position will return to current PID calculated position.	(-5 to 90) °F
Max_SHAlarm3	Max SH Alarm 3	Highest superheat temperature possible before the alarm starts for coil three. After timer delay, valve is opened 100%. Anytime superheat goes below max SH alarm setpoint, the timer resets and the valve position will return to current PID calculated position.	(-5 to 90) °F
SHAlarmandly1	SH Alarm Delay 1	Delay in seconds before the superheat alarm becomes active for coil one.	(0 to 300) sec
SHAlarmandly2	SH Alarm Delay 2	Delay in seconds before the superheat alarm becomes active for coil two.	(0 to 300) sec
SHAlarmandly3	SH Alarm Delay 3	Delay in seconds before the superheat alarm becomes active for coil three.	(0 to 300) sec

5.5 Sensor connection, C2: Outputs-in



Sheet#2

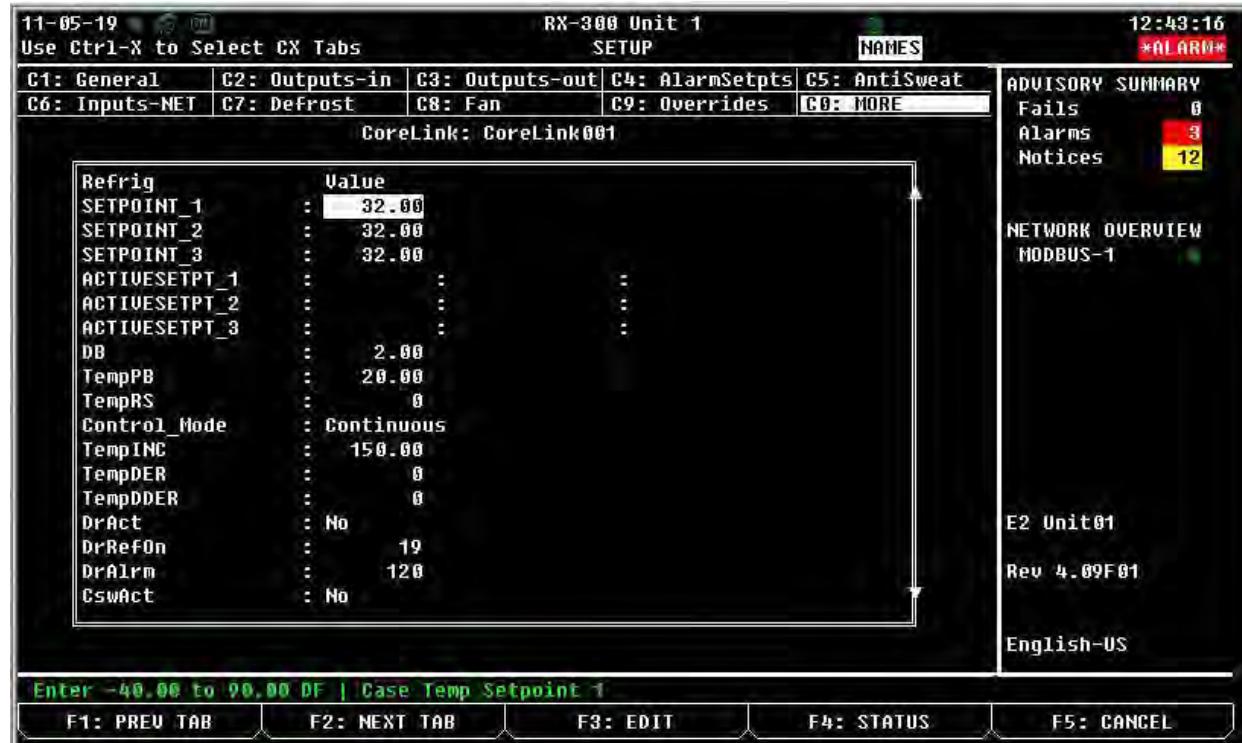


- Navigate to C2: Outputs In and check sensor connectivity & real time data update.

E2 Parameter	Description
COIOUT1	Coil out 1 temperature
COIOUT2	Coil out 2 temperature
COIOUT3	Coil out 3 temperature
DEFRTERMTEMP1	Defrost termination 1 temperature
DISCHARGETEMP1	Discharge 1 temperature
DISCHARGETEMP2	Discharge 2 temperature
DISCHARGETEMP3	Discharge 3 temperature
FRAMETEMP	Frame temperature
PRESSURE1	Pressure 1
RETURNTEMP1	Return 1 temperature
REFRIGDISABLEDI	Refrigeration Disable Input
RETURNTEMP2	Return 2 temperature
RETURNTEMP3	Return 3 temperature
CLEANDI	Clean switch digital input
DEFROSTINITDI	Defrost init DI
DEFROSTTERMDIOU	Defrost terminate digital input
DOORDI	Door digital input
DUALTEMPDI	Dual temperature setpoint digital input
ENABLEDIDI	Shut down digital input
MOTIONDI	Light motion digital input
COMP1DCHTEMPAI	
COMP2DCHTEMPAI	
COMP3DCHTEMPAI	
COMP1DCHPRESAI	
COMP2DCHPRESAI	
COMP3DCHPRESAI	
COMP1PRESSAFEDI	
COMP2PRESSAFEDI	
COMP3PRESSAFEDI	
CONDINLETTEMP	
CONDOUTLETTEMP	
HACCP	
SATURATIONTEMP	
CONDENSERFANOUT	
NIGHTCURTAINDO	
PRESSURE2	
PRESSURE3	
DEFRTERMTEMP2	
DEFRTERMTEMP3	

5.6 Refrigeration configuration,C0: More : Refrigeration

- Navigate to C0: More for refrigeration parameters to verify Setpoints, Dead Band, and control mode Refrigeration E2 Tab details



Page #2



- Refrigeration setpoints of E2 parameter versus CoreLink parameters list to be verified.
Check the following 28 Read/Write & 3 Write parameters.

E2 Parameter	CoreLink Parameter	Description	Range
SETPOINT1	Temp Setpoint 1	Case Temp Setpoint 1	(-40 to 90) °F
DB	Deadband	Deadband	(1 to 45) °F
SETPOINT2	Temp Setpoint 2	Case Temp Setpoint 2	(-40 to 90) °F
Control_Mode	Control Mode	Control Type Strategy	0, "Standard", 1, "Continuous", 2, "Suction", 3, "SH Only"
SETPOINT3	Temp Setpoint 3	Case Temp Setpoint 3	(-40 to 90) °F
TempPB	P	Proportional Band	(1 to 30) °F
TempRS	Band Offset	Band Offset	(-50 to 50) °F
TempINC	I	Integral (0 to 255 sec)	(0 to 255 sec)
TempDER	D	Derivative Sampling Time (0 to 255 sec)	(0 to 255 sec)
TempDDER	Derivative Time	Derivative Time	(0 to 255 sec)
DrAct	Door Switch Active	Door Switch Active	1, "Yes", 0, "No"
DrRefOn	Door Alarm Timer	Door Refrigeration Timer	(0 to 120)x 10 sec
DrAlrm	Door Alarm Delay	Door Alarm Active Delay	(0 to 120)x 10 sec
CswAct	Clean Switch Active	Clean Switch Active	1, "Yes", 0, "No"
CswRefOn	Clean Alarm Delay	Clean Switch-Refrigeration ON Delay	(0 to 360)x 10 sec
CTMode	Control Temp Mode	Control Mode	4, "Individual", 3, "Mix", 2, "Average", 1, "Minimum", 0, "Maximum"
Weight1	Weight1	Discharge 1 weight, (0~100)	0-100%
Weight2	Weight2	Discharge 2 weight, (0~100)	0-100%
Weight3	Weight3	Discharge 3 weight, (0~100)	0-100%
ControlMix	Control Mix	Control Mix	2, "Coil3", 1, "Coil2", 0, "Coil1"
DoorMode	Door Mode	Door Mode	0, "Alarm", 1, "Shutdown"
CleanMode	Clean Mode	Clean Mode	1, "BackOn", 0, "Normal"

5.7 Defrost configuration setting, C7: Defrost

- Navigate to C7 for the Defrost SETUP



- Verify the E2 settings for Defrost Parameters, Defrost Durations, Input Selection, and Defrost Mode of E2 parameter versus CoreLink parameters list to be verified.

E2 Parameter	CoreLink Parameter	Description	Range
DefrType	Defrost Mode	Electric mode for cases with installed electric heaters. Hot gas mode for cases with hot gas defrosts system.	3, "Elec Def - Indiv Coils", 2, "Modular Defrost", 1, "Hot Gas", 0, "Electric", 4, "Off Time"
DefrDuration	Max Defrost Duration	Maximum time in minutes for active defrost mode. Prevents continuous defrost due to faulty termination temperature sensor failing to terminate cycle.	(1 to 60) min
DefrDelay	Defrost Delay	After switching from refrigeration to defrost, the delay until defrost starts.	(0 to 30) min
TermTempSelect	Termination Temperature Sensor	Use analog input coil out [BLUE] temperature sensor or analog input defrost [ORANGE] temperature termination sensor.	1, "Coil Out Temp", 0, "Defr Term Temp"
TermTempComb	Temperature Combination	Maximum: Uses the highest value between all available/enabled coil-out temperature sensors or defrost-termination sensors. Minimum: Uses the lowest value between all available/enabled coil-out temperature sensors or defrost-termination sensors. Average: Uses the average value between all available/enabled coil-out temperature sensors or defrost-termination sensors.	2, "Min", 1, "Max", 0, "Avg"
TermSetpoint	Termination Temperature Setpoint	Temperature setpoint at which defrost ends.	(0 to 99) °F
DripTime	Drip Time	Amount of time after defrost for the coil to drip.	(0 to 30) min
MaxWait	Max Wait	Refrigeration starts if in wait period and the end-wait input is active. If no supervisory controller is available (offline), the application ignores the end-wait-input and will not use it for the start refrigeration logic.	(1 to 60) min
DefrFreq	Defrost Interval	Time between defrost cycles in hours.	(1 to 255) hours
TermType	Defrost Termination Mode	Use termination temperature sensor or digital/network input.	1, "Digital", 0, "Temp"
DefrMin	Min Defrost Duration	Minimum time in minutes for active defrost mode. Prevents early defrost termination due to faulty termination temperature sensor.	(1 to 40) min

5.7.1 How to Schedule A Defrost in connected CoreLink

Using E2 Standard Circuit

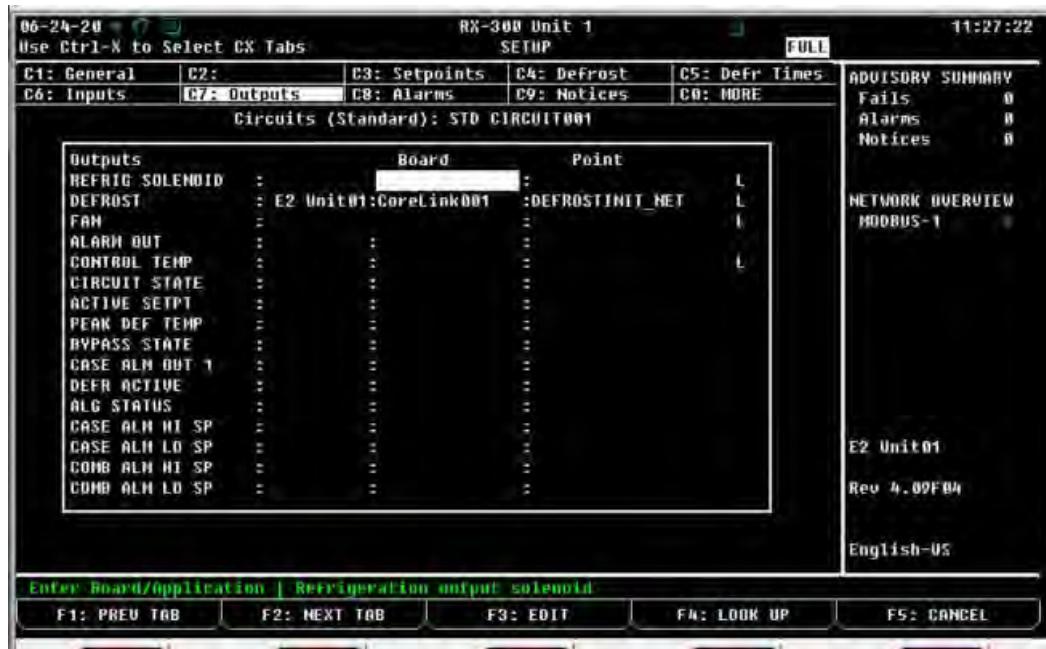
- Start with an E2 that has a Standard Circuit application added
- Setup Standard Circuit defrost schedule (tabs C5, C6)



- Navigate to CoreLink (Press Menu, F8 and select 1)
- Enter Setup mode F5
- Navigate to Inputs-NET tab (C6)
- Point the CoreLink's DEFROSTINIT_NET parameter to E2: Standard Circuit name: Defrost



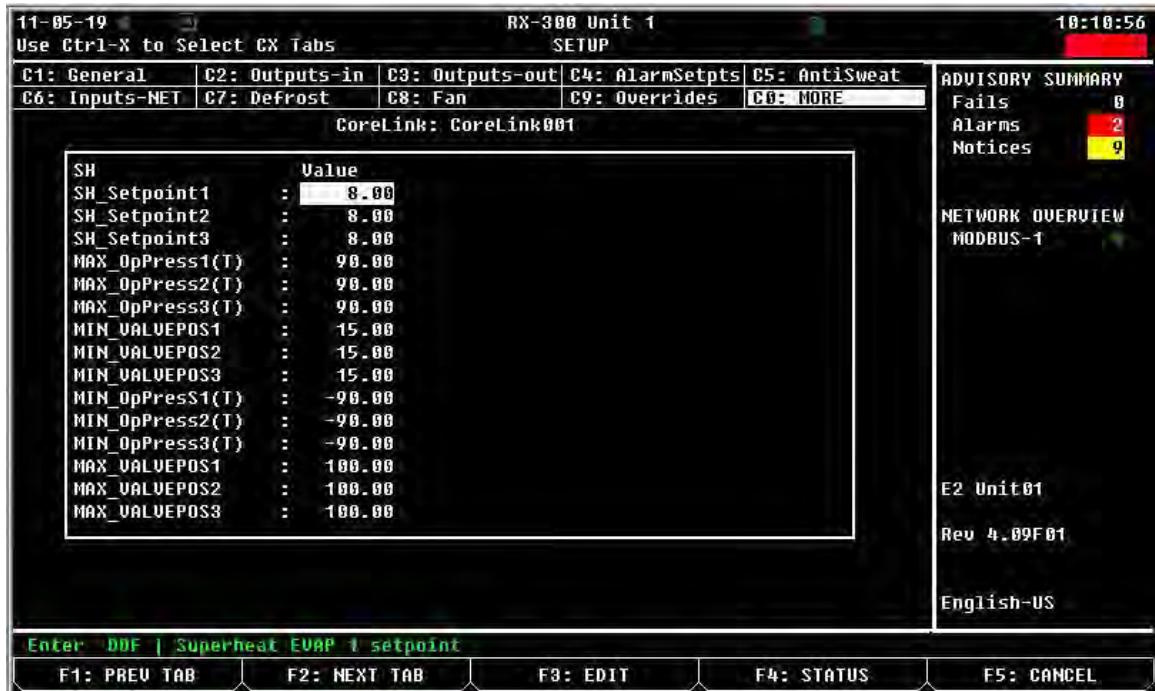
- Exit and Save changes to application
- CoreLink should be visible in Standard Circuit Outputs tab



- Repeat steps for other controllers

5.8 Super Heat setting, C0: More: Superheat:

- Navigate to C0: More and then to Super heat to check SH setpoints, Min valve Position, Max valve position, MOP & LOP



- Superheat Parameters verification:
Navigate to C0: More and then to Super heat setpoints to verify following 15R/W parameters

E2 Parameter	CoreLink Parameter	Description	Range
SH_Setpoint1	SH1	Superheat EVAP 1 setpoint	(1 to 40) °F
SH_Setpoint2	SH2	Superheat EVAP 2 setpoint	(1 to 40) °F
SH_Setpoint3	SH3	Superheat EVAP 3 setpoint	(1 to 40) °F
MAX_OpPress1(T)	Max_OpPress1(T)	Max Operating Pressure 1	Max EVAP 1 Operating Pressure Threshold (-90 to 90) °F
MAX_OpPress2(T)	Max_OpPress2(T)	Max Operating Pressure 2	Max EVAP 2 Operating Pressure Threshold (-90 to 90) °F
MAX_OpPress3(T)	Max_OpPress3(T)	Max Operating Pressure 3	Max EVAP 3 Operating Pressure Threshold (-90 to 90) °F
MIN_VALVEPOS1	MIN_VALVEPOS1	Min valve Position 1	MIN Valve Pos for Section 1 (0-100) %
MIN_VALVEPOS2	MIN_VALVEPOS2	Min Valve Position 2	MIN Valve Pos for Section 2 (0-100) %
MIN_VALVEPOS3	MIN_VALVEPOS3	Min valve Position 3	MIN Valve Pos for Section 3 (0-100) %
MIN_OpPres1(T)	MIN_OpPres1(T)	Low Operating Pressure 1	Min EVAP 1 Operating Pressure Threshold (-90 to 90) °F
MIN_OpPress2(T)	MIN_OpPress2(T)	Low Operating Pressure 2	Min EVAP 2 Operating Pressure Threshold (-90 to 90) °F
MIN_OpPress3(T)	MIN_OpPress3(T)	Low Operating Pressure 3	Min EVAP 3 Operating Pressure Threshold (-90 to 90) °F
MAX_VALVEPOS1	MAX_VALVEPOS1	Max Valve Position 1	Max Valve Pos for Section 1 (0-100) %
MAX_VALVEPOS2	MAX_VALVEPOS2	Max Valve Position 2	Max Valve Pos for Section 2 (0-100) %
MAX_VALVEPOS3	MAX_VALVEPOS3	Max Valve Position 3	Max Valve Pos for Section 3 (0-100) %

5.9 Valve Parameter, C0: More : Valve

11-05-19 RX-300 Unit 1 10:06:50
 Use Ctrl-X to Select CX Tabs SETUP *ALARM*

C1: General	C2: Outputs-in	C3: Outputs-out	C4: AlarmSetpts	C5: AntiSweat
C6: Inputs-NET	C7: Defrost	C8: Fan	C9: Overrides	C0: MORE

CoreLink: CoreLink001

Valve	Value
VALVETYP1	: Spor1SER(I)GJK
VALVETYP2	: Spor1SER(I)GJK
VALVETYP3	: Spor1SER(I)GJK
MINSTEPS_V1	: 0
MINSTEPS_V2	: 0
MINSTEPS_V3	: 0
MAXSTEPS_V1	: 250
MAXSTEPS_V2	: 250
MAXSTEPS_V3	: 250
INITSTEPS_V1	: 75.00
INITSTEPS_V2	: 75.00
INITSTEPS_V3	: 75.00
EXTRASTEPS_V1	: 75
EXTRASTEPS_V2	: 75
EXTRASTEPS_V3	: 75
RELAXSTEPS_V1	: 1
RELAXSTEPS_V2	: 1

ADVISORY SUMMARY
 Fails 0
 Alarms 2
 Notices 9

NETWORK OVERVIEW
 MODBUS-1

E2 Unit01
 Rev 4.09F01

English-US

Enter 0 to 500 | Relax steps V2 0-500

F1: PREV TAB F2: NEXT TAB F3: EDIT F4: STATUS F5: CANCEL

Sheet #2

11-05-19 RX-300 Unit 1 10:07:08 *ALARM*

Use Ctrl-X to Select CX Tabs SETUP

C1: General	C2: Outputs-in	C3: Outputs-out	C4: AlarmSetpts	C5: AntiSweat
C6: Inputs-NET	C7: Defrost	C8: Fan	C9: Overrides	C0: MORE

CoreLink: CoreLink001

Valve	Value
RELAXSTEPS_V2	: 1
RELAXSTEPS_V3	: 1
PEAKCURR_1	: 12
PEAKCURR_2	: 12
PEAKCURR_3	: 12

ADVISORY SUMMARY
 Fails 0
 Alarms 2
 Notices 9

NETWORK OVERVIEW
 MODBUS-1

E2 Unit01
 Rev 4.09F01

English-US

Enter 0 to 500 | Relax steps V2 0-500

F1: PREV TAB F2: NEXT TAB F3: EDIT F4: STATUS F5: CANCEL

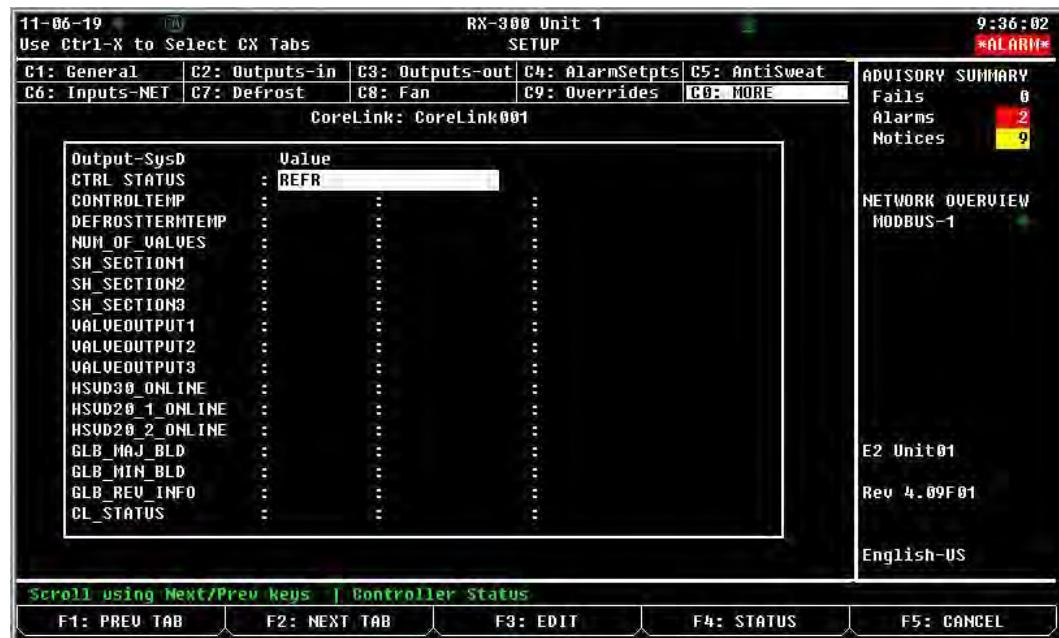
Valve Parameters setpoints of E2 parameter versus CoreLink

- Navigate to C0: More, then to Valve Parameters to verify 21 Read Write parameters as below

E2 Parameter	CoreLink Parameter	Description	Range
VALVETYP1	Valve Type 1	Predefined valve selection for valve one. This will overwrite valve parameters with the controller defaults for the selected valve. Use manual for custom applications.	13, "SporISEH(I)175", 12, "SporISEH(I)100", 11, "SporISE150", 10, "SporISER(I)GJK", 9, "SporISE130", 8, "SporISER1.Sto20", 7, "SporISE1.Sto11", 6, "DanfETS-250/400", 5, "DanfETS-100", 4, "DanfETS-25/50", 3, "AlcoEX8-500st/s", 2, "AlcoEX7", 1, "AlcoEX4-5-6", 0, "Manual"
VALVETYP2	Valve Type 2	Predefined valve selection for valve two. This will overwrite valve parameters with the controller defaults for the selected valve. Use manual for custom applications.	13, "SporISEH(I)175", 12, "SporISEH(I)100", 11, "SporISE150", 10, "SporISER(I)GJK", 9, "SporISE130", 8, "SporISER1.Sto20", 7, "SporISE1.Sto11", 6, "DanfETS-250/400", 5, "DanfETS-100", 4, "DanfETS-25/50", 3, "AlcoEX8-500st/s", 2, "AlcoEX7", 1, "AlcoEX4-5-6", 0, "Manual"
VALVETYP3	Valve Type 3	Predefined valve selection for valve three. This will overwrite valve parameters with the controller defaults for the selected valve. Use manual for custom applications.	13, "SporISEH(I)175", 12, "SporISEH(I)100", 11, "SporISE150", 10, "SporISER(I)GJK", 9, "SporISE130", 8, "SporISER1.Sto20", 7, "SporISE1.Sto11", 6, "DanfETS-250/400", 5, "DanfETS-100", 4, "DanfETS-25/50", 3, "AlcoEX8-500st/s", 2, "AlcoEX7", 1, "AlcoEX4-5-6", 0, "Manual"
MINSTEPS_V1	Min Steps 1	Below this number of steps, valve one has to be considered closed. In case of alarms or no consensus from the thermostat, the valve moves to this number of steps. This is the valve manufacturer recommended lower valve opening limit.	(0 to 50)x 10 Steps
MINSTEPS_V2	Min Steps 2	Below this number of steps, valve two has to be considered closed. In case of alarms or no consensus from the thermostat, the valve moves to this number of steps. This is the valve manufacturer recommended lower valve opening limit.	(0 to 50)x 10 Steps
MINSTEPS_V3	Min Steps 3	Below this number of steps, valve three has to be considered closed. In case of alarms or no consensus from the thermostat, the valve moves to this number of steps. This is the valve manufacturer recommended lower valve opening limit.	(0 to 50)x 10 Steps
MAXSTEPS_V1	Max Steps 1	Above this number of steps, valve one has to be considered open. This is the valve manufacturer recommended higher valve opening limit.	(0 to 800)x 10 steps
MAXSTEPS_V2	Max Steps 2	Above this number of steps, valve two has to be considered open. This is the valve manufacturer recommended higher valve opening limit.	(0 to 800)x 10 steps
MAXSTEPS_V3	Max Steps 3	Above this number of steps, valve three has to be considered open. This is the valve manufacturer recommended higher valve opening limit.	(0 to 800)x 10 steps
INITSTEPS_V1	Initial Step Regulation 1	When the valve regulation starts, valve one moves to this position. As soon as the valve is in position the compressor can start.	(0 to 800)x 10 steps
INITSTEPS_V2	Initial Step Regulation 2	When the valve regulation starts, valve two moves to this position. As soon as the valve is in position the compressor can start.	(0 to 800)x 10 steps
INITSTEPS_V3	Initial Step Regulation 3	When the valve regulation starts, valve three moves to this position. As soon as the valve is in position the compressor can start.	(0 to 800)x 10 steps
EXTRASTEPS_V1	Extra Step 1	When valve one is at its min number of step (From Min Steps), the valve adds this many extra close steps to recover possible lost steps. Valve Overrun.	(0 to 500) steps
EXTRASTEPS_V2	Extra Step 2	When valve two is at its min number of step (From Min Steps), the valve adds this many extra close steps to recover possible lost steps. Valve Overrun.	(0 to 500) steps
EXTRASTEPS_V3	Extra Step 3	When valve three is at its min number of step (From Min Steps), the valve adds this many extra close steps to recover possible lost steps. Valve Overrun.	(0 to 500) steps
RELAXSTEPS_V1	Relax Step 1	After any extra steps, if any, valve one is forced open for the number of steps specified here.	(0 to 500) steps
RELAXSTEPS_V2	Relax Step 2	After any extra steps, if any, valve two is forced open for the number of steps specified here.	(0 to 500) steps
RELAXSTEPS_V3	Relax Step 3	After any extra steps, if any, valve three is forced open for the number of steps specified here.	(0 to 500) steps
PEAKCURR_1			
PEAKCURR_2			
PEAKCURR_3			

5.10 System parameters, C0: More: Output – SysD

E2 system parameters can be accessed in this Tab.

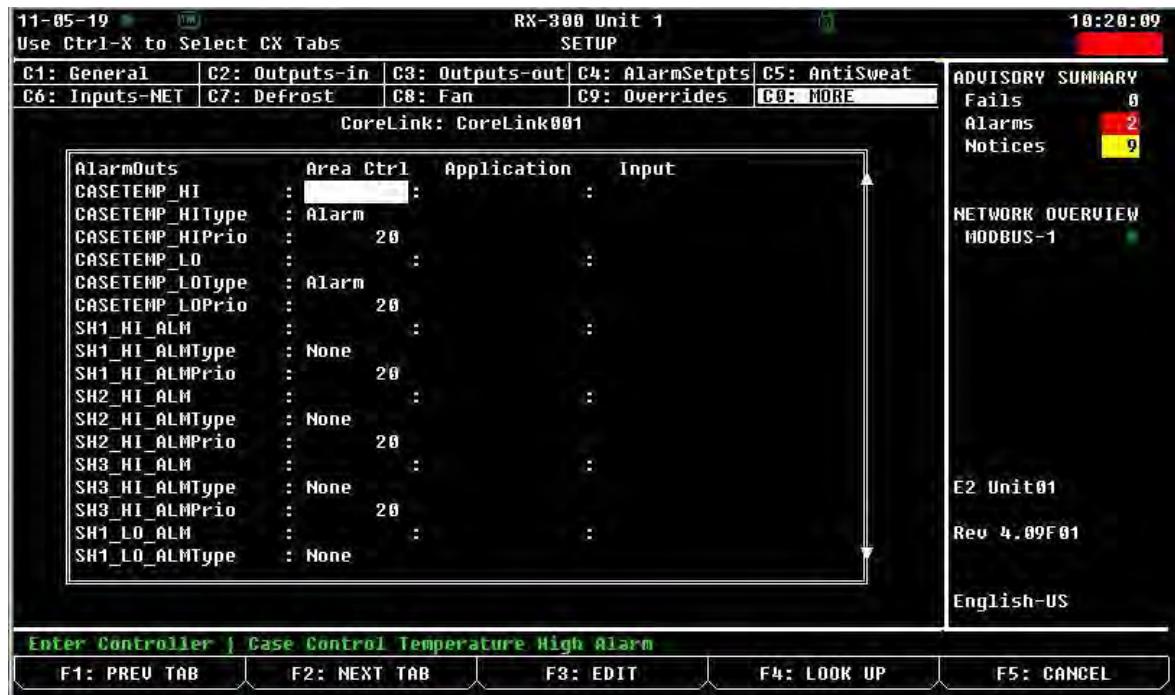


- Navigate to C0: More and to Output – SysD 1Read/Write,16 Read variables of Valve num, SH temp, Valve output, and other E2 parameters as given below.

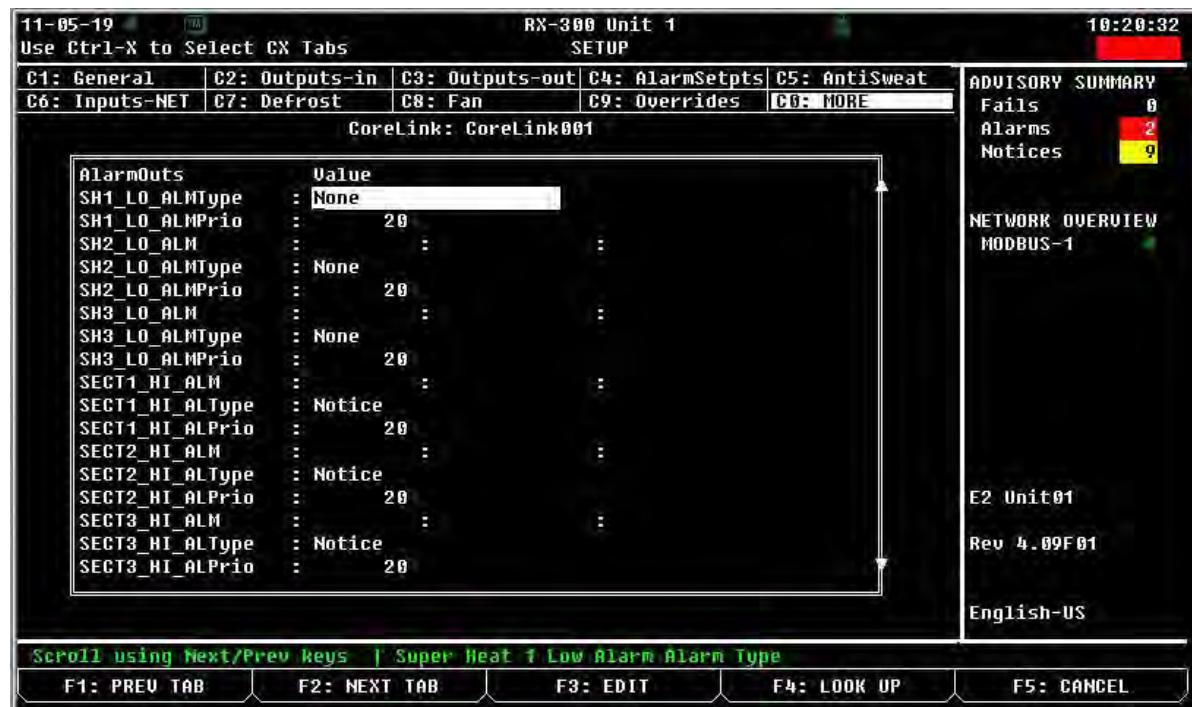
E2 Parameter	Description
CONTROLTEMP	Control temperature for refrigeration
DEFROSTTERMTEMP	Defrost termination temperature
NUM_OF_VALVES	Number of valves preset in the case
SH_SECTION1	Superheat temperature coil 1
SH_SECTION2	Superheat temperature coil 2
SH_SECTION3	Superheat temperature coil 3
VALVEOUTPUT1	Direct output EEV driver valve 1
VALVEOUTPUT2	Direct output EEV driver valve 2
VALVEOUTPUT3	Direct output EEV driver valve 3
HSV30_ONLINE	XEV30K Online
HSV20_1_ONLINE	XEV20Online_1
HSV20_2_ONLINE	XEV20Online_2
GLB_MAJ_BLD	Major Build code
GLB_MIN_BLD	Minor Build Code
GLB_REV_INFO	Revision information
CTRL_STATUS	
CL_STATUS	

5.11 Alarm List &Priority, C0: More, Alarms Outs:

- Navigate to C0: More and then to Alarm outs to check for all the Alarm outs per the list given below and check the assigned priority



Page#2, Alarms Outs



Page#3, Alarms Outs

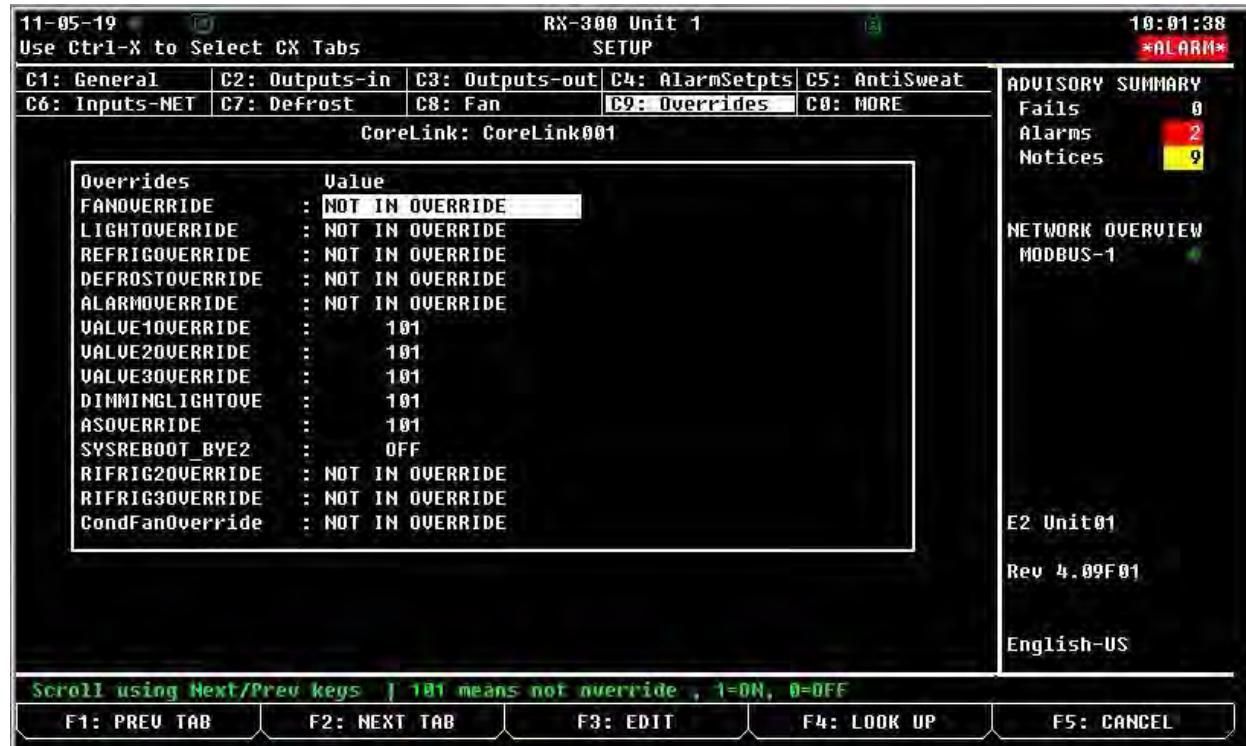


- Navigate to C0: More. Check all the Alarm Outs setpoints in the E2 parameters of the 28 Read/Write, 14 Read description, and Range to be verified for Alarms Outs (Check both ON/OFF) and assign priority (20- High)

E2 Parameter	Description	Range
CASETEMP_HI	Case Control Temperature High Alarm	ON-OFF
CASETEMP_LO	Case Control Temperature Low Alarm	ON-OFF
SECT1_HI_ALM	Discharge Air 1 High Alarm	ON-OFF
SECT1_LO_ALM	Discharge Air 1 Low Alarm	ON-OFF
SECT2_HI_ALM	Discharge Air 2 High Alarm	ON-OFF
SECT2_LO_ALM	Discharge Air 2 Low Alarm	ON-OFF
SECT3_HI_ALM	Discharge Air 3 High Alarm	ON-OFF
SECT3_LO_ALM	Discharge Air 3 Low Alarm	ON-OFF
SH1_HI_ALM	Super Heat 1 High Alarm	ON-OFF
SH1_LO_ALM	Super Heat 1 Low Alarm	ON-OFF
SH2_HI_ALM	Super Heat 2 High Alarm	ON-OFF
SH2_LO_ALM	Super Heat 2 Low Alarm	ON-OFF
SH3_HI_ALM	Super Heat 3 High Alarm	ON-OFF
SH3_LO_ALM	Super Heat 3 Low Alarm	ON-OFF

5.12 Override Selection, C9: Overrides:

Override menu is used to force override any controlled output that is connected to CoreLink. This forced state will only last for 15 minutes and CoreLink reverts to automatic control mode when the output is left overridden. Override options can be selected Off(0), ON(1), Auto(101) & Not in Over ride ,



- Navigate to C9: Override to verify 14 Read/Write Variables, on Fan, Light, Refrig, Defrost, Alarm, Valve & Cond fan override.

E2 Parameter	Description	Range
FANOVERRIDE	Fan digital override	0, "OFF", 1, "ON", 101, "NOT IN OVERRIDE"
LIGHT OVERRIDE	Light digital override	0, "OFF", 1, "ON", 101, "NOT IN OVERRIDE"
REFRIGOVERRIDE	Refrigeration digital output override	0, "OFF", 1, "ON", 101, "NOT IN OVERRIDE"
DEFROST OVERRIDE	Defrost digital output override	0, "OFF", 1, "ON", 101, "NOT IN OVERRIDE"
ALARMOVERRIDE	Alarm digital output override	0, "OFF", 1, "ON", 101, "NOT IN OVERRIDE"
VALVE1 OVERRIDE	Valve 1 position override	0-100%
VALVE2 OVERRIDE	Valve 2 position override	0-100%
VALVE3 OVERRIDE	Valve 2 position override	0-100%
DIMMINGLIGHT OVERRIDE	Dim analog output override	0-100%
ASOVERRIDE	Anti-Sweat analog output override	0-100%
SYSREBOOT_BYE2	Controller reboot	
REFRIG2 OVERRIDE		
REFRIG3 OVERRIDE		
CondFanOverride		

5.13 Fan setting, C8: Fans:

Page#1

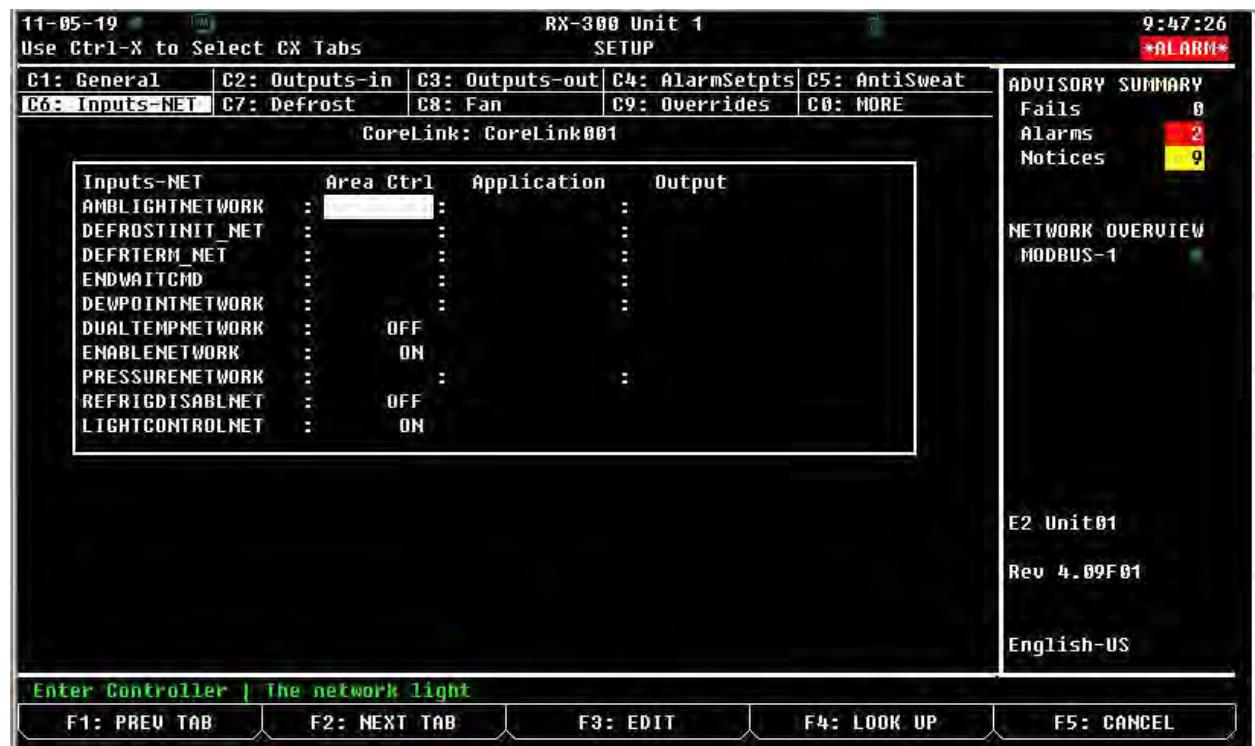


- Navigate to C8: Fans setpoints to verify following 6 read/write parameters

E2 Parameter	CoreLink Parameter	Description	Range
FanCtrlMode	Fan Mode	4 selectable fan control modes.	0, "OnRef-OfDef", 1, "OnCnt-OfDef", 2, "OnRef-OnDef", 3, "OnCnt-OnDef"
FanAfterDefrost	Fan Operation after Defrost	Not Used: By temperature: In refrigeration mode if selected termination temperature sensor is above the fan setpoint, the fan output is OFF. By time: After defrost and switching into refrigeration mode, the fan starts the delay timer for a user-defined time before the output is active.	2, "Time", 1, "Temperature", 0, "NU"
FanSetpoint	Fan Setpoint	Temperature setpoint in which case fans will start. (Temperature Mode)	(-10 to 70) °F
FanHys	Fan Hysteresis	Temperature margin from the fan setpoint in which the fan will not be active.	(1 to 30)
FanTimeDelay	Fan Delay	After defrost and switching into refrigeration mode, time before fans start. (Time Mode)	(0 to 30)x 10 sec
Fan_Dual_Temp			

5.14 Network Input control, C6: Inputs-NET

Page#1



- Navigate to C6: Inputs- NET to verify Light control, and Other network data as given in below table (4 Read/write, 6 Read Variables)

E2 Parameter	Description
AMBLIGHTNETWORK	Network light
DEFROSTINIT_NET	Manual defrost command
DEFRTERM_NET	Network input of defrost termination
ENDWAITCMD	Network input of end wait CMD
DEWPOINTNETWORK	Network dewpoint
DUALTEMPNETWORK	Network dual temp
ENABLENETWORK	Network system enable
PRESSURENETWORK1	Network pressure from E2
REFRIGDISABLNET	Refrig disable network command if set to 1
LIGHTCONTROLNET	Light control from system manager

5.15 Antisweat config, C5: Antisweat:

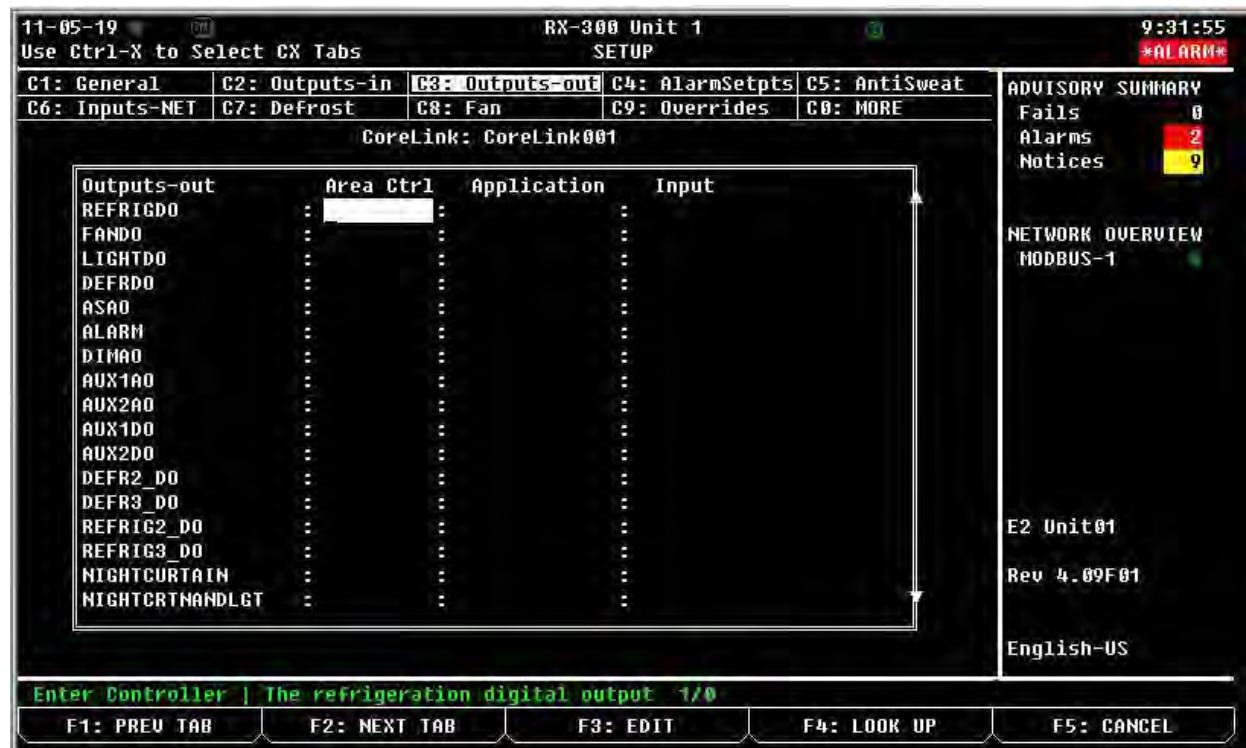


- Navigate to C5: Antisweat to verify 4 read/write parameters including Dew setpoints Max min output of Antisweat heater output , check range as well.

E2 Parameter			
CoreLink Parameter		Description	Range
DewSet	Dew Setpoint	If no network dewpoint value is available, the frame temperature maintains a user-adjusted band above the dewpoint setpoint.	(0 to 100) °F
DewPB	Dew Proportional Band	Userdefined range from which the temperature can drift from the Dew Setpoint.	(0 to 20) °F
ASWMax	Max Output	Maximum anti-sweat power output.	(0 to 100) %
ASWMin	Min Output	Minimum anti-sweat power output.	(0 to 100) %

5.16 Digital output, C3: Outputs – Out:

Details of digital output configuration



Page#2

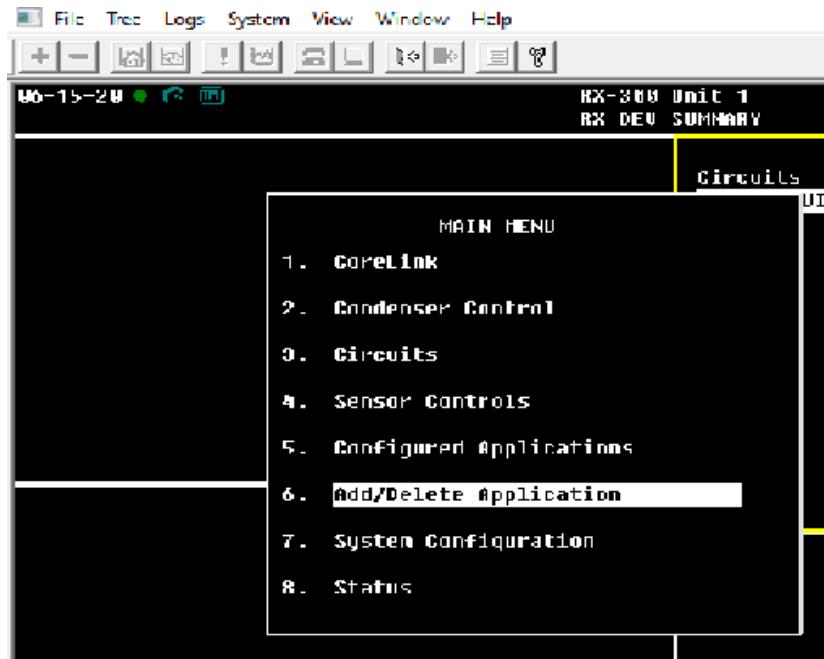


- In E2, Navigate to C3: outputs out to check for all the Digital Output's (18 Read Variables)

Parameter	Description
REFRIGDO	Refrigeration 1 digital output
FANDO	Fan digital output
LIGHTDO	Light digital output
DEFRDO	Defrost 1 digital output
ASAO	Anti-sweat analog output
ALARM	Alarm status
DIMAO	Dimming analog output
AUX1AO	Auxiliary 1 analog output
AUX2AO	Auxiliary 2 analog output
AUX1DO	Auxiliary 1 digital output
AUX2DO	Auxiliary 2 digital output
DEFR2_DO	Defrost 2 digital output
DEFR3_DO	Defrost 3 digital output
REFRIG2_DO	Refrigeration 2 digital output
REFRIG3_DO	Refrigeration 3 digital output
NIGHTCURTAIN	
NIGHTCRTNANDLGT	
AUX3DO	

5.17 How to create CASE LIGHTS time schedule:

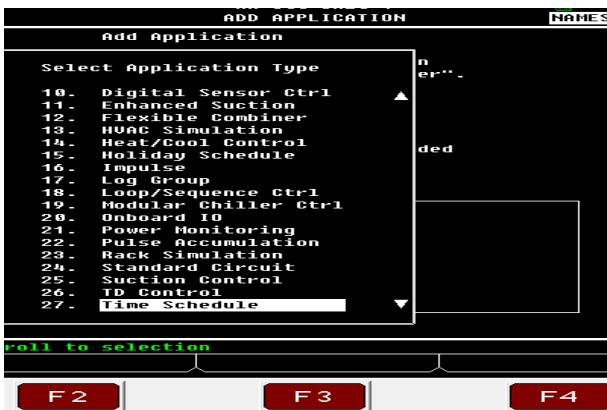
- Select Menu F9, in main menu, select 6, followed by 1 then F4: Lookup
- Press 6



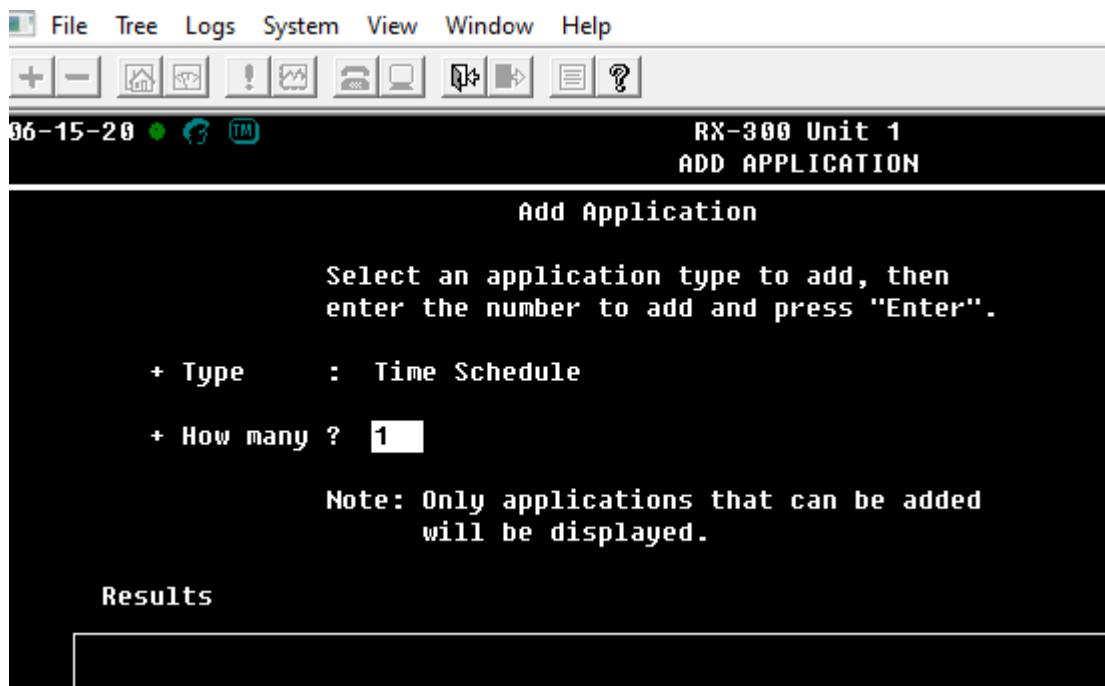
- Press 1



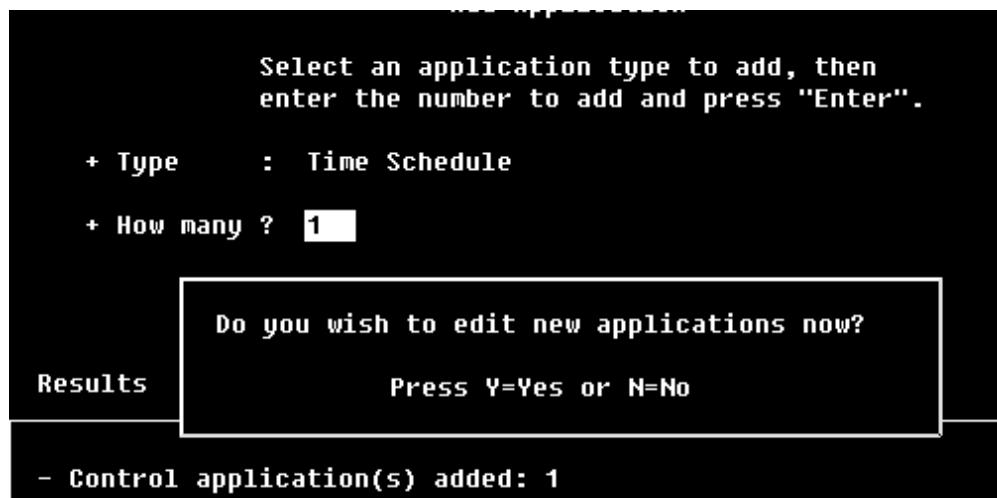
- Press F4 and select 27 for Time schedule



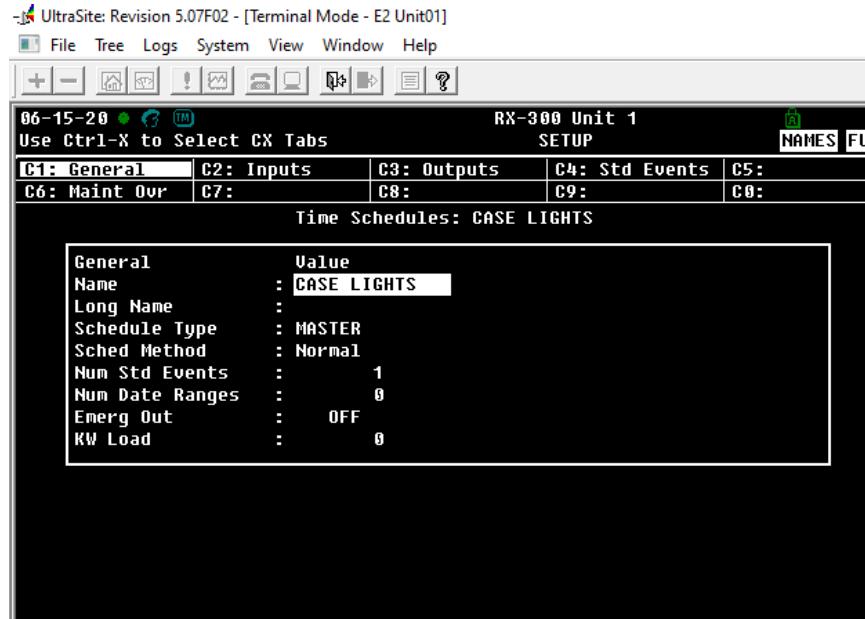
- Highlight the *How Many?* field and select “1”, press enter



- Select “Y” to edit the application now

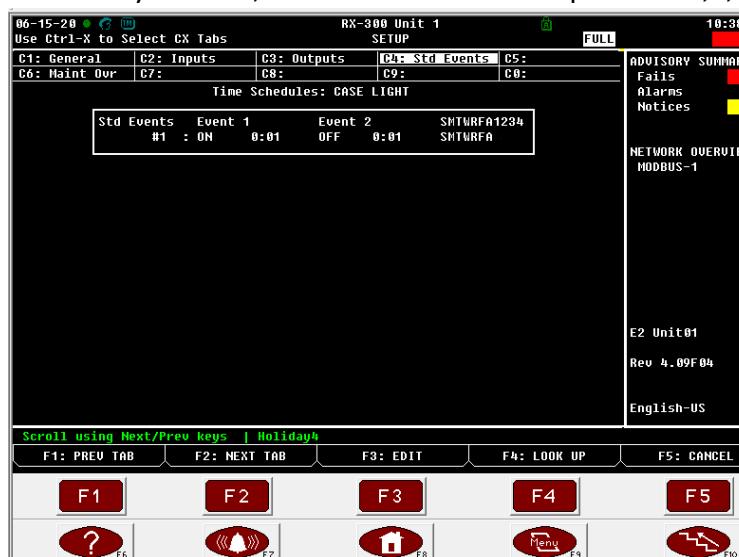


- General Tab (C1) – Change *Name* to “CASE LIGHTS” and *Num Std Events* to “1”



Note: Use ctrl – x (give the number instead of X to move to C1, C2 etc.... Ex: ctrl+4 to move to 4)

- Std Events Tab (C4) - Set lights to come on at desired times.
- For *Event 1*, type “ON”, then arrow over 1 space and type the on time.
- For *Event 2*, type “OFF”, then arrow over 1 space and type offtime
- Schedule for days can be set by Arrow over to *SMTWRFA1234*
- Press the Next Key under *S*, then arrow over and repeat for *M,T,W,R,F,A*,



6. Troubleshooting E2-CoreLink Integration:

<u>Issue</u>	<u>Trouble shooting Steps</u>
1. Communication error with E2	<ul style="list-style-type: none">- Verify wiring of Daisy chain Loop back to E2. The last CoreLink in Network need to be terminated by connecting a resistor of Value 150Ω across Pin 63, 64- Verify the correct MODbus address of CoreLink Controller. reboot controller, A reboot is required when modifying the controller MoDBUS address- Verify the correct Baud rate of CoreLink and System Manager- Verify primary/secondary configuration of CoreLinks- Verify CoreLink IP addresses
2. E2 Missing information from CoreLink controller	
3. Fans Are Staying on and Not deactivating during defrost	<ul style="list-style-type: none">- Verify E2 primary is set to YES on WebUI systems tab. <i>Note : Only partial information will show up if primary set to NO.</i>- There is a setting in CORELINK WebUI that controls whether evaporator fans are on or off in defrost.- Go to CoreLink WebUI -> Config -> Fans-> set correct fan configuration

Applicable versions

CoreLink App Ver : 3.0.0 & 2.6.0
WebUI Ver : 2.0.0, 1.10.0 & 1.08.0
E2 description file : 5270551.dsc
BIOS : 2020022900, 2020052000

The logo consists of the word "HUSSMANN" in a bold, sans-serif font. A registered trademark symbol (®) is positioned at the top right corner of the letter "n".

**To obtain warranty information
or other support, contact your
Hussmann representative.
Please include the model and
serial number of the product.**

Hussmann Corporation, Corporate Headquarters, Bridgeton, Missouri, U.S.A. 83044-2483 01 October 2012