HUSSMANN®

CoreLink™

Current Transducer Field Commissioning Procedure

CT Commissioning Manual

Application Version

IMPORTANT

Keep in factory for future reference!

English

Introduction and Requirements

Purpose of this manual is to provide field service personnel the information necessary to successfully commission the CoreLink, component loads and current transducer (CT).

Hardware Requirements

Following parts are shipped when Hussmann cases are ordered with optional CT on CoreLink

- CoreLink Case Controller P/N:3053539
- Current Transducer P/N:

Software Requirements

Following versions or higher versions of software packages are configured inside CoreLink and are required to support CT functionality

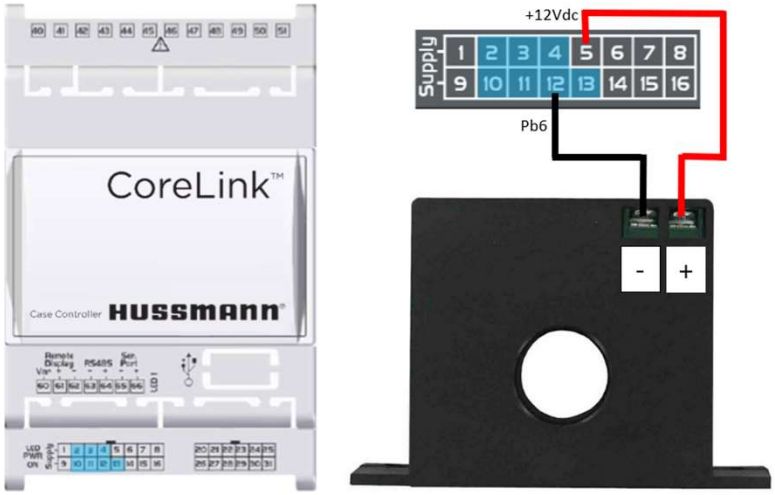
- CoreLink
  - Application Version 3.0.0 +
  - Web UI 2.1.0 +

Bios Version: 2020022900	Web UI Version: 2.1.0
Application Version: 3.0.0	Application Date Code: 41720

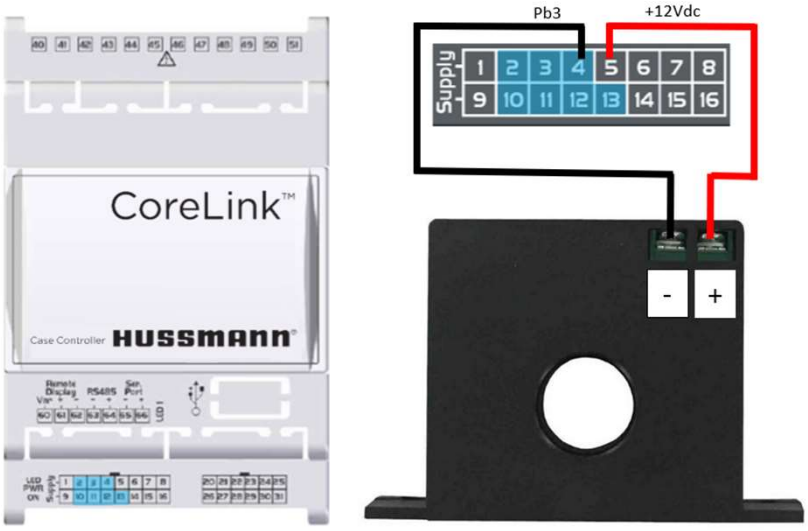
Confirm Hardware Wiring

1. Validate CT/CoreLink wiring

- Visually confirm the wiring of the CT to the CoreLink



MEDIUM TEMPERATURE CASE



LOW TEMPERATURE CASE

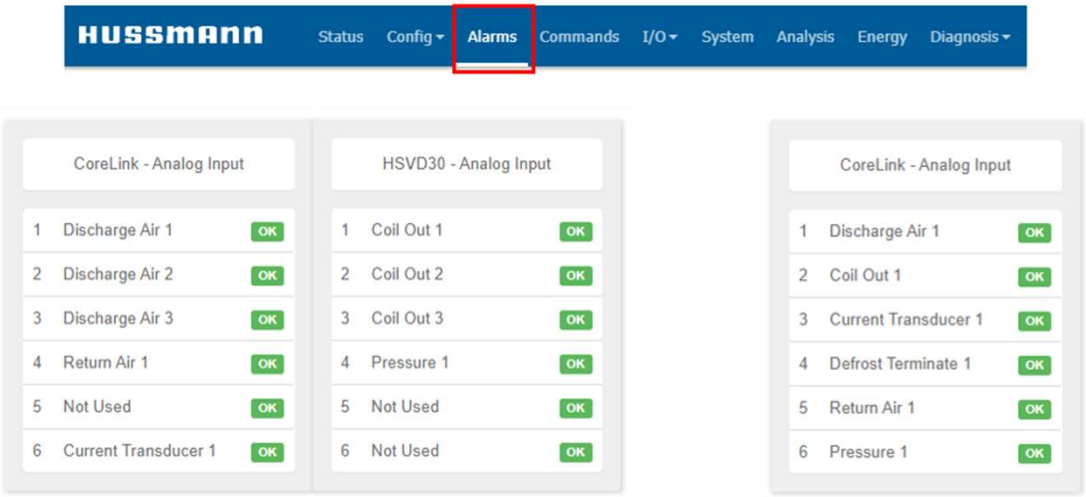
2. Validate CT/Load wiring

- Visually confirm the lights, fans and heater (if applicable) load wires are running through the CT core.
- Reference case model wiring diagram. Part numbers located in Appendix A

Confirm Software Configurations (cont.)

3. Validate CoreLink Analog Inputs

- Log into CoreLink's user interface
- Navigate to Alarms tab and confirm analog inputs are not alarming



MEDIUM TEMP I/O

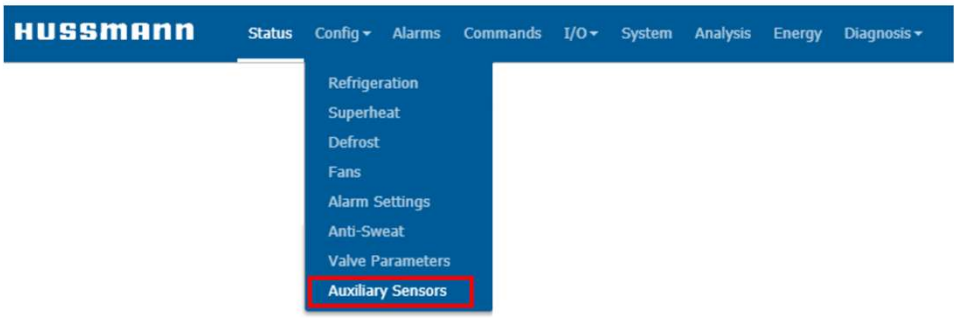
LOW TEMP I/O

Note :– *CT Hardware wiring and software configurations are checked in during Factory Self Test and are not mandatory to check before commissioning.*

Commissioning Steps

4. Commissioning the CT

- Navigate to the Auxiliary Sensors tab



- Confirm the CT is measuring an amperage and the min/max tolerance are configured. Min/Max values are typically configured in factory configurations.
- Select “Start” to begin the commissioning process

System Load	Current Transducer	Baseline		Min Limit		Max Limit		Last Read
Defrost 1:	CT Sensor 1	0	A	10	%	10	%	0 A
Defrost 2:	None	0	A	0	%	0	%	0 A
Defrost 3:	None	0	A	0	%	0	%	0 A
Drain Heater:	None	0	A	0	%	0	%	0 A
Evap Fan 1:	CT Sensor 1	0	A	10	%	10	%	0 A
Evap Fan 2:	None	0	A	0	%	0	%	0 A
Evap Fan 3:	None	0	A	0	%	0	%	0 A
Light:	None	0	A	0	%	0	%	0 A
Night Curtain:	None	0	A	0	%	0	%	0 A
Compressor 1:	None	0	A	0	%	0	%	0 A
Compressor 2:	None	0	A	0	%	0	%	0 A
Compressor 3:	None	0	A	0	%	0	%	0 A

Apply

Example only: RLN3

Commissioning Steps (cont.)

5. Commissioning Process Complete

- Once complete, the Commission Status will display Commissioned and the configured loads will display the components Baseline current measurement

CT Sensor

Commissioning:	Start	Stop	
Commission Status:	Commissioned		
CT Readings:	1.14 A	Err A	Err A

System Load	Current Transducer	Baseline	Min Limit	Max Limit
Defrost 1:	CT Sensor 1	9.74 A	10 %	10 %
Defrost 2:	None	0 A	0 %	0 %
Defrost 3:	None	0 A	0 %	0 %
Drain Heater:	None	0 A	0 %	0 %
Evap Fan 1:	CT Sensor 1	0.92 A	10 %	10 %
Evap Fan 2:	None	0 A	0 %	0 %
Evap Fan 3:	None	0 A	0 %	0 %
Light:	None	0 A	0 %	0 %
Night Curtain:	None	0 A	0 %	0 %
Compressor 1:	None	0 A	0 %	0 %
Compressor 2:	None	0 A	0 %	0 %
Compressor 3:	None	0 A	0 %	0 %

Example only: RLN3

- **Commissioning is complete**

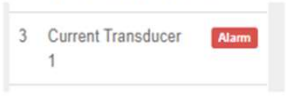
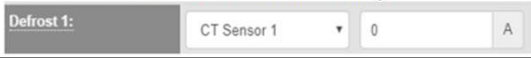
Appendix A – Case Model Wiring Diagram

Appendix A. This Appendix contains case model wiring diagram part numbers

CASE MODEL	WIRING DIAGRAM P/N
INSIGHT	3103937
IM-05-C12	3113134
IM-05-C6,8,10	3110672
IM-05-E3,4,5	3110424
RLN	3097560
RMN	3104737
SFNG	3113663

Appendix B – Trouble Shooting

Appendix B. This Appendix contains information on troubleshooting the commissioning on the current transducer

ISSUE	RECOMMENDATION
Current Transducer Alarm 	Confirm wiring of CoreLink to CT
	Confirm wiring of CT to CoreLink
	Confirm polarity of all wiring
CT Reading = Err 	Confirm wiring of CoreLink to CT
	Confirm wiring of CT to CoreLink
	Confirm analog input configurations
Baseline Measurement = 0 Amps 	Confirm CoreLink control of digital outputs (fans, defrost heaters) using the Command menu
	Confirm the component load wires are run through the CT core