HUSSMANN®

CoreLink
™

Release Notes for software
revision 3.0

IMPORTANT

Keep with controller for

future reference!

MANUAL- CORELINK CASE CONTROLLER

Additional Features added in CoreLink 3.0 Software Release

- Application software supports new remote display
- Application software support BAC-net communication functionality.
  - Communication protocol selectable between BACnet IP and BAC-net MSTP.

Note :- New CoreLink hardware is required to support both the new display and BACnet communications.

New CoreLink Hussmann PN - 3053539

- New feature to read load current detect component failure alarms are added.
- Component failures are automatically configured and are detected as per case model
- Following component failure alarms are triggered and notified.
  - Evaporator Fan failure
  - Defrost Heater failure
- Improved Dual Temp functional sequence to improve the case performance.
  - For a Dual temp case configurations are automatically switched between continuous mode and standard depending on medium temp and low temp selection of the case.
  - Defrost sequence and other defrost safeties are also adjusted according to the case operation type.
- DASH controller functionality integrated into CoreLink
  - Hussmann's DASH controller algorithm is integrated into CoreLink to provide single solution and remote visibility to the customer.
  - DASH controller temperature and humidity sensor is required.
  - DASH sensor Temperature & Humidity values are displayed on the status page and are reported on data exchange protocols.

Additional Features added in CoreLink 3.0 Software Release – Cont'd

- **Additional configuration to run "Pull down" cycle is added**
  - New functionality to hold the valve at a fixed position during pulldown after defrost.
    - This valve position resets to normal control output after either configured time expires or control temperature reaches the operating zone.
- **SuperHeat alarm Delay added**
  - In the alarm page superheat alarm delay is added as a configurable parameter
  - **Min Alarm:** Superheat below this value will force valve in alarm to close 0%. Closure begins after user defined alarm delay period.
  - **Max Alarm:** Superheat above this value will force valve in alarm to open 100%. Opening begins after user defined alarm delay period. When superheat returns to normal or below this set value, superheat control will resume.
- Self Test Improvement
  - Improvements made to self test sequence to reduce the test time and also to track additional information during testing.

Defect Fixes done from previous release

- In previous releases time cannot be changed with commission login. Issue corrected where user can now adjust time with commission user ID.
- Increase the valve steps range from 0- 10000, used to be 0-500
- Improvements for Factory restore and Save buttons
- BACnet Baud rate bug fix
- PWM Valve Duty Cycle bug fix

Additional Details on the new features added in application version 3.0

1. Component Failure Alarms

Defrost Heater Failure Alarm :- Defrost Heater Component failure is an alarm generated when defrost consumes Low current or High current than the normal operating current, and and it is flagged when High alarm event or low alarm event happens for 2 defrost sequences.

Evaporator Fan failure alarm :- Evaporator fan failure is one alarm which is generated When fan consumes Low current or High current than the normal operating current, and it is flagged when High alarm event or low alarm event happens for 3 consecutive times. When a case is equipped with multiple fans, alarm indicates a potential fan failure but does not indicate which fan failed.

Alarms are visible in CoreLink alarms page and are also available through communications

⚠️ Manually press Clear near the Alarm to clear the Component Failure alarm or a controller reset would clear the alarm.

Additional Details on the new features – Cont'd

- **DASH controller functionality integrated into CoreLink.**
  - DASH sensor configurations are on Analog inputs page.

AIC01 (Pin 2):	Discharge Air 1 (Default) ▼
AIC02 (Pin 3):	Dash Temp Sensor ▼
AIC03 (Pin 4):	Current Transducer 1 ▼
AIC04 (Pin 10):	Defrost Terminate 1 ▼
AIC05 (Pin 11):	Return Air 1 ▼
AIC06 (Pin 12):	Dash RH Sensor ▼

- DASH Temp & DASH RH Sensor values are displayed on the status page of Web UI

Refrigerant	R449A	Saturation	-2.7 °F
Dew Point	0.0 °F	Pressure 1	22.1 PSI
Dash Temperature	285.4 °F	Dash RH	113.9%
Anti-Sweat Heater	100 %		

- **Additional configuration to run "Pull down" cycle is added**
  - Configurations are in defrost page

Pull Down Settings ⓘ

Pull Down Valve Opening 1:	75	(0 to 100) %
Pull Down Valve Opening 2:	75	(0 to 100) %
Pull Down Valve Opening 3:	75	(0 to 100) %
Pull Down Max Duration:	0	(0 to 180) min