Case Controller (CC200)

Update Advisory CC200 Firmware 1.04F02/1.04F03

1.04F02 Overview

The 1.04F02 firmware release is now available. This release includes a change related to CO_2 specific shutdown behavior.

Software Change: Valve Control During a CO_2 Specific Shutdown

Previously, during a CO_2 related shutdown (either triggered by high pressure alarm or CO_2 load enable signal), the CC200 did not follow the correct valve sequencing if an EEPR was configured. This update changes that behavior with the following logic:

General Logic

During a CO_2 shutdown event, the CC200 controller will now:

- **Close** the first available valve based on a predefined priority sequence
- **Open** all other downstream valves to relieve system pressure efficiently

Valve Priority Order

The revised priority for valve closure:

- LLSV (Liquid Line Solenoid Valve) - Highest priority
- EEV (Electronic Expansion Valve) - Second priority
- EEPR (Electronic Evaporator Pressure Regulator) - Third priority

Scenario Handling During Shutdown

Scenario Description	Valve Actions
LLSV is configured	LLSV closes, EEV and EEPR open
LLSV is not configured EEV is configured (**Exp Valve Type** is **Stepper** or **Pulse**)	EEV closes, EEPR opens
LLSV is not configured EEV not configured (**Exp Valve Type** is **None** or **TEV**)	EEPR closes

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1.04F03 Overview

The 1.04F03 firmware release is now available. This release expands the changes incorporated in 1.04F02 to all types of case shutdowns when CO_2 refrigerant is configured. Accordingly, 1.04F02 has been superseded by 1.04F03.

Software Change: Shutdown Valve Control for CO_2 Refrigerant

Previously, a *Service* or *Night* shutdown closed all configured refrigerant valves immediately, potentially trapping liquid CO_2 in the evaporator coil. Additionally, the Leak shutdown closed the LLSV and EEV but left the EEPR open. This update changes the valve actions during these shutdowns to match the table above, so that all types of shutdowns provide consistent valve behavior when CO_2 is configured.

Upgrade Information

Upgrading to 1.04F03 is recommended for EEPR-equipped CC200 lineups used in CO_2 systems to avoid trapping refrigerant in the evaporator and potential refrigerant floodback to the compressors when exiting shutdown.

When upgrading firmware, always ensure that the CC200 main controller and display are running compatible versions. Use only USB 2.0 drives for all firmware and BIOS updates — USB 3.0 drives are not supported and may result in update failure.

Firmware versions 1.04F02/1.04F03 are backward compatible; however, to ensure optimal system performance and feature consistency, all controllers within the lineup are required to operate on an identical firmware version. In scenarios where the master controller has been upgraded to version 1.04F02/1.04F03 or later, it is expected that all associated slave controllers be correspondingly updated to the same firmware version to maintain protocol integrity and functional synchronization. For more details, please refer to the firmware upgrade instructions and configuration documentation.

Firmware Compatibility

Follow the compatibility matrix below to ensure you have the most recent integration files.

Table 1: BACnet CC200 Compatibility Matrix

CC200 App (FW Version)	ADF Number E3/Site Supervisor	ADF Version	DSC Number E2	DSC Version
1.03F02	531-0299	v1016.4	527-0770	v19.0
1.04F01	531-0299	v1030.0	527-0770	v21.0
1.04F02	531-0299	v1030.0	527-0770	v21.0
1.04F03	531-0299	v1030.0	527-0770	v21.0

Table 2: MODBUS CC200 Compatibility Matrix

CC200 App (FW Version)	ADF Number E3/Site Supervisor	ADF Version	DSC Number E2	DSC Version
1.03F02	531-0346	v1016.0	527-0961	v1.67
1.04F01	531-0346	v1030.0	527-0961	v3.0
1.04F02	531-0346	v1030.0	527-0961	v3.0
1.04F03	531-0346	v1030.0	527-0961	v3.0

Cold Chain Mobile App

Cold Chain Connect mobile app users should **download the latest app** from the respective app store for compatibility with CC200 1.04F02/1.04F03. OEM customers with CC200 configurations built in their Cold Chain Connect library should follow on-screen instructions in the app to complete the configuration upgrade process.

Scan the QR code for the Cold Chain Connect App.

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