

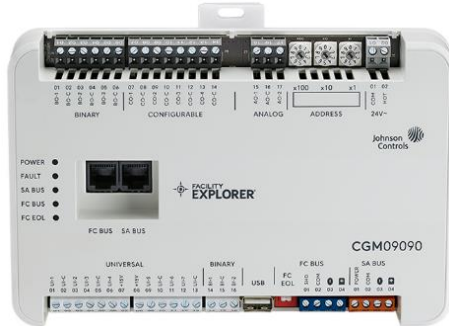
# Facility Explorer CGM and CVM Equipment Controllers

Johnson Controls has released their newest line of Facility Explorer MS/TP field controllers, the F4-CGM09090-0 General Purpose Application Controller and the F4-CVM03050-0 VAV Box Controller

These new controllers are the first of a new family of field equipment controllers for Facility Explorer

## Key Features

- ✓ Onboard alarming, trending and scheduling (integral real-time clock)
- ✓ Removable screw terminals on all wiring connections for ease of installation and service
- ✓ Faster processor for better performance
- ✓ More memory to support background downloads and future upgrades  
CGM/CVM: 16MB Flash, 8MB SDRAM (PCG/PCV: 1MB Flash, 512KB RAM)
- ✓ Higher resolution inputs to allow for more accurate sensing
- ✓ Rotary decimal switches for easier addressing
- ✓ Supports MS/TP or N2: Auto detection of MS/TP or N2 communications – no manual protocol setup required



## Details

- **F4-CGM09090-0** General Purpose Application Controller

### Overview

- BTL-listed as a BACnet Advanced Application Controller (B-AAC)
- Real-time clock for scheduling, alarming and trending

### Inputs/Outputs

- 18 points (7 UI, 2 BI, 2 AO, 3 BO, and 4 CO)
- Supports SA Bus expansion (PCX Expansion modules)

### Packaging

- Removable screw terminal blocks
- Not Plenum-rated

### Protocols

- MS/TP or N2 communications
- Wireless option available on FC or SA Bus

- **F4-CVM03050-0** VAV Box Controller with an integral actuator, integral digital differential pressure transducer (DPT)

### Overview

- BTL-listed as a BACnet Advanced Application Controller (B-AAC)
- Real-time clock for scheduling, alarming and trending

### Inputs/Outputs

- 8 points (3 UI, 3 BO, and 2 CO)
- Includes integral actuator and integral DPT
- Supports SA Bus expansion

## Packaging

- Removable screw terminal blocks
- Plenum-rated

## Protocols

- MS/TP or N2 communications
- Wireless option available on FC or SA Bus

## Tools required

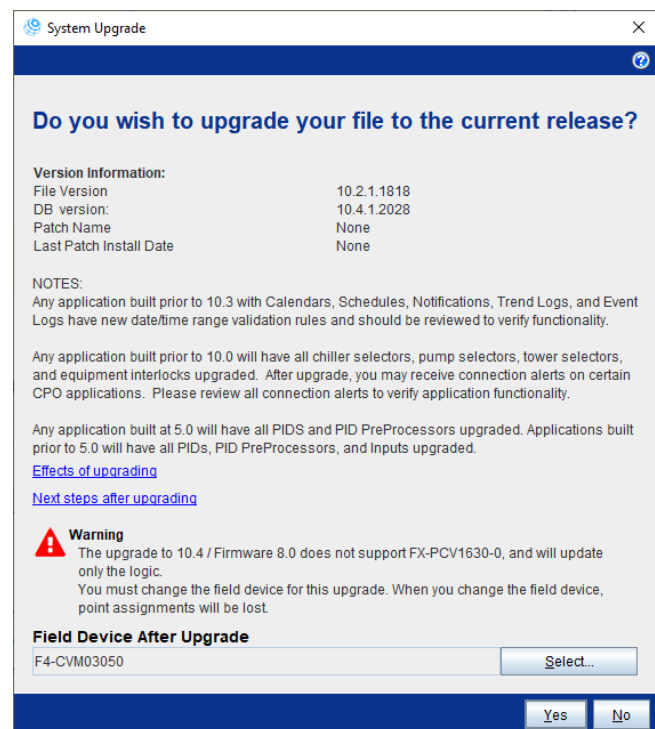
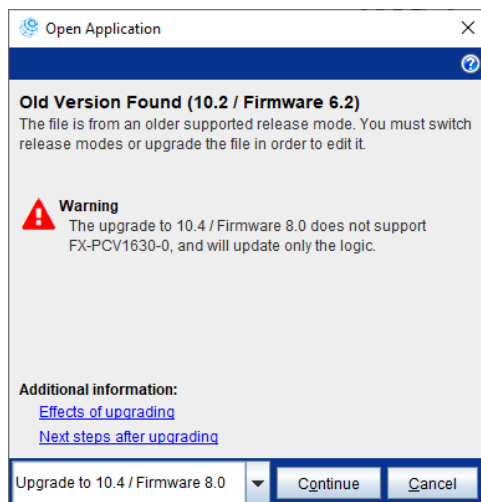
- CCT 13 Controller Configuration Tool
  - CCT License required (per laptop)
  - FX Field Controller Package (FCP) License required
- PCT cannot be used (does not support Release Mode 10.4)

## CCT Settings

- CCT must be set for Release Mode 10.4 to program the CGM/CVM controllers

## Application Compatibility

- An application (.caf) from Release Mode 10.2 can be opened and upgraded to Release Mode 10.4 for use on the CGM and CVM controllers. Therefore PCG/PCV/PCA applications can be upgraded and used on the new family of MS/TP controllers.



*Keep in mind, a Release Mode 10.4 application cannot be downgraded to Release Mode 10.2. This means an application created for a CVM/CVM or FX IP Controller in Release Mode in 10.4 cannot be used on an MS/TP PCG/PCV/PCA controller.*

## Future Releases

- Expansion I/O Modules: XPM04060, XPM09090
- New ZFR Series Wireless Router
- New WRG Wireless Gateway
- FX SNC Series Network Control Engine (uukl)