



EMERSON 2.21F01 Advisory Supervisory Control Platform Firmware Owner's Manual

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Update Advisory Supervisory Control Platform Firmware 2.21F01 Release Notes

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2.21F01 Advisory Supervisory Control Platform Firmware

A new general release version of the Supervisory controller firmware version 2.21 F0r has been released and is

available for customer upgrade. For more information, visit the Supervisory Control page on the Emerson website : <https://climate.emerson.com/en-us/products/controls-monitoring-systems/facility-controls-electronics/facility-and-system-controls/lumity-supervisorycontrols-platform>



Figure 1 - E3 Controller

IMPORTANT:

- Reset or power cycle an upgraded E3 approximately 10 minutes after the upgrade is complete.

Who Should Update

Emerson recommends that all customers upgrade their Supervisory controllers and PCs running Connect+ to the latest version to take advantage of the latest fixes and enhancements listed in Table 3.

All customers who use any of the features below are advised to upgrade to Supervisory controller 2.21F01, and customers using any of the features listed in Table 3.



Figure 2 - Site Supervisor Controller

Global Data	Time Schedules
XM Circuit Application	System Logs
Floor plans	CANbus
Smart Alarms	Enhanced Suction
System Backup	Connect+
Online Help	Backup/Restore
BACnet	M400 Device
Offline Programming	

CONNECT+ UPDATE RECOMMENDED

Supervisory Controller Version	Recommended Connect+ Version
2.21F01	1.5.4F01


Table 1 – Supervisory Controller and Connect+ Compatibility Matrix

It is recommended to upgrade to the latest Connect+ version. If you plan to upgrade Supervisory controllers and Connect+ at the same time, upgrade Connect+ to the latest version first, then update the Supervisory controllers. Contact Emerson for more information about upgrading.

CONTROLLER FIRMWARE COMPATIBILITY

Firmware	Platform
E3_#.#####_Display_Update	E3 only
E3_#.#####_Firmware_Update	E3 and Site Supervisor
SS_#.#####_Firmware_Update	Site Supervisor only

Table 2 – Firmware Platform Mapping

Features and Fix Descriptions	Supported in Supervisory Controllers 2.21F01
Features	
Smart Alarms > Smart Alarm function is now supported for CO2 and Enhanced Condenser applications.	

<p>Calendar Enhancements for Schedules</p> <p>> Time options added and new Day and Holiday selections added for slave events.</p> <ul style="list-style-type: none"> •Master Time – Schedule for the master event. •Overlap Time – Time of the slave event that is shared with the master schedule. •Reduced Time – Displayed with the slave event and scheduled to end before the master schedule event (may be based on relative or absolute time). •Slave Time – Event starts prior to master event and/or ends after master event schedule (based on relative time only). •Absolute Time – Time displayed in blue occurs before or after the master event start and end times (based on absolute time only). 	✓
<p>Password Lockout</p> <p>> If an incorrect password is entered 10 times in a row, the user will be locked out for 30 minutes. A message will appear to show the number of remaining attempts.</p>	✓
<p>Send To Tile Points</p> <p>> Source points can be sent to target users. Tile point changes to an application can be sent selectively to other applications of the same type. Tile point displays can be easily created for specific applications and users.</p>	✓
<p>XM Circuit</p> <p>> Case Clean out support added. Enable from the Cleaning Switch parameter in the General tab of the XM Circuit application. Set the mode from the Cleaning Mode parameter and configure Failsafe time settings.</p>	✓
<p>Sporlan Kelvin 2</p> <p>Support added; license required.</p>	✓
Fixes	
<p>Time Schedule</p> <p>> Two events can no longer be added to a slave schedule that conflict with each other (for example, events with the same parameters, with the exception that the first event has no OFF event.) A warning message will appear.</p>	✓
<p>BACnet</p> <p>> BACnet IP Broadcast is now supported.</p> <p>> The unit number is now visible in the Audit Log and Service Log for the setpoint file.</p>	✓
<p>Online Help</p> <ul style="list-style-type: none"> • XM Circuit <p>> Help text and links are now corrected.</p> <ul style="list-style-type: none"> • System Summary Screen <p>> Supported browsers added.</p> <ul style="list-style-type: none"> • XEV22D 1.1 <p>> Help support added.</p> <ul style="list-style-type: none"> • M400 <p>> Help support added.</p> <ul style="list-style-type: none"> • CoreSense <p>> Help support added.</p> <ul style="list-style-type: none"> • IPX6, IPX15, IPX12 <p>> Property and page level help for additional parameters.</p> <ul style="list-style-type: none"> • Onboard IO <p>> Property and page level help for additional parameters.</p> <ul style="list-style-type: none"> • Discus <p>> Missing help icons are now visible.</p>	✓
<p>Backup File Name Configuration</p> <p>> The Backup file name in the USB/SD card is now consistent with that in the local PC.</p>	✓

M400 Device > The Decel and Accel Rate value in the Setpoints tab now shows correct values for min and max.	✓
E3 Global Data Application > The “Processor Temperature” property has been added on the “Sys Data” tab in E3. > “Sunrise Time” and “Sunset Time” values are now correct in the Solar Time tab.	✓
UI Enhancement > The controller unit number is now included in the footer in the lower right of the screen.	✓
Offline Programming > Floor plan files exported from Offline Programming are now correct and can be installed.	✓
Floor plans > Alarm status no longer displays in “Alarm High Limit” and “Alarm Low Limit” for an E2 unit.	✓
System Logs > The unit number is now visible in the Audit Log and Service Log for the setpoint file.	✓
Enhanced Suction > The “None” setting removed for “Dgtl Lower %” and “Dgtl Upper %” properties.	✓
CANbus > When using the Connect+ function, “Obtain Controller Info” in the IPX device relays will no longer intermittently activate.	✓

Table 3 – Supervisory Controller 2.21F01 Feature and Fix Matrix

Update Supervisory Controller

			Supervisory Controller Firmware Version												
			2.06F01	2.07F01	2.08F01	2.09F01	2.10F01	2.11F03	2.12F01	2.13F01	2.14F01	2.15F01	2.16F02	2.17F02	2.18F03
Firmware Update File	2.06F01_Firmware_Update	✓													
	2.07F01_Firmware_Update	✓	✓												
	2.08F01_Firmware_Update	✓	✓	✓											
	2.09F01_Firmware_Update	✓	✓	✓	✓										
	2.10F01_Firmware_Update	✓	✓	✓	✓	✓									
	2.11F03_Firmware_Update	✓	✓	✓	✓	✓	✓								
	2.12F01_Firmware_Update	✓	✓	✓	✓	✓	✓	✓							
	2.13F01_Firmware_Update	✓	✓	✓	✓	✓	✓	✓	✓						
	2.14F01_Firmware_Update	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	2.15F01_Firmware_Update	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	2.16F02_Firmware_Update							✓	✓	✓	✓	✓			
	2.17F02_Firmware_Update							✓	✓	✓	✓	✓	✓		
	2.18F03_Firmware_Update							✓	✓	✓	✓	✓	✓	✓	
2.19F01 and higher							✓	✓	✓	✓	✓	✓	✓	✓	

Legend	✓	This version of Supervisory controller can upgrade using this version of firmware update file.
		This version of Supervisory controller can NOT upgrade using this version of firmware update file.
		It is NOT recommended to downgrade Supervisory controller firmware.

Workaround and Notes
1) For example, in order to upgrade Supervisory controllers from 2.10F01 to 2.20F03, you must first upgrade to any version of 2.12F01 – 2.15F01, then upgrade to 2.20F03 or higher.
2) If firmware is equal to 2.12F01 or above: Upgrade directly to 2.20F03 or higher.
3) If firmware is below 2.12F01: First upgrade to 2.15F01, and then upgrade to 2.20F03 or higher.
4) 2.11F01, 2.11F02 and 2.16F01 Firmware_Update files should be not used.
5) If the Supervisory controller is below 2.08F01 and the model is default SMF, you must first upload the Feature Set file, then upgrade firmware.

Supported Browsers

- Microsoft Edge v88 and later

- Mozilla Firefox 11 and later
- Google Chrome 61.0 and later
- Apple Safari® on iOS10 (iPhone® 5C, iPad® 4) and later
- Webview on Android 5.0 (Samsung Galaxy S4) and later

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<https://climate.emerson.com/en-us/products/controls-monitoring-systems/facility-controls-electronics/facility-and-system-controls/lumity-supervisory-controls-platform>

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Documents / Resources

	<p>EMERSON 2.21F01 Advisory Supervisory Control Platform Firmware [pdf] Owner's Manual 2.21F01 Advisory Supervisory Control Platform Firmware, 2.21F01, Advisory Supervisory Control Platform Firmware, Supervisory Control Platform Firmware, Control Platform Firmware, Platform Firmware, Firmware</p>
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References

- [Emerson Retail Solutions Tech Support | Facebook](#)
- [Copeland Worldwide | Copeland US](#)
- [Controls & Monitoring Systems | Copeland US](#)
- [Lumity Supervisory Control Platform | Copeland US](#)