Field Equipment Controller (FEC) Series Catalog Page

Code No. LIT-1900346 Issued June 2018

Refer to the QuickLIT website for the most up-to-date version of this document.

The Field Equipment Controller (FEC) Series products are programmable controllers that can be switched between BACnet® MS/TP and N2 communications protocols. When they are used as BACnet MS/TP devices, they are BACnet Application Specific Controllers (B-ASCs) with integral MS/TP communications. In N2 mode, they can be used to modernize sites with legacy Johnson Controls® controllers.

FECs feature 32-bit microprocessor architecture, patented continuous tuning adaptive control, and peer-to-peer communications, and are available with an optional built-in LCD screen local UI.

A full range of FEC models combined with the Input/Output Module (IOM) models can be applied to a wide variety of building applications ranging from simple fan coil or heat pump control to advanced central plant management. All FEC Series Controllers configured for BACnet support wireless communications using the ZFR System accessories.

Important:

You cannot purchase a similar third-party device and install it in a UL/cUL Listed smoke control system. Doing so voids the UL/cUL Smoke Control Listing. Third-party devices must be provided and labeled by the factory as described in the UL/cUL Smoke Control Listing.

Important:

Only those Johnson Controls products identified for use in smoke control applications have been tested and listed by UL for use in a *Metasys* system UL/cUL 864 10th Edition UUKL/ORD-C100-13 UUKLC Smoke Control System. Installation of a product that is not UL/cUL Listed and labeled for this application prevents the entire system from being UL/cUL Listed for smoke control

Refer to the Metasys® System Field Equipment Controllers and Related Products Product Bulletin (LIT-12011042) for product application details.

If the product fails to operate within its specifications, replace the product. For a replacement product, contact the nearest Johnson Controls® representative.

Features

- Switchable Communications Protocols—Provides flexibility with a choice between BACnet MS/TP and N2 communication
- Standard BACnet® Protocol—Provides interoperability with other Building Automation System (BAS) products that use the widely accepted BACnet standard.
- Standard Hardware and Software Platform—Uses a common hardware design throughout the family line to support standardized wiring practices and installation workflows. Also uses a common software design to support use of a single tool for control applications, commissioning, and troubleshooting to minimize technical training.
- ZFR Wireless Field Controller (FC) or Sensor/Actuator (SA)
 Bus Interface—Provides a wireless alternative to hard-wired
 Metasys® system counterparts with either the ZFR1800 Series
 Wireless Bus or the WNC1800/ZFR182x Pro Series Wireless Field
 Bus (ZFR Pro), offering application flexibility and mobility with
 minimal disruption to building occupants.

Figure 1: Field Equipment Controllers



- Bluetooth® Wireless Commissioning—Provides an easy-to-use connection to the configuration and commissioning tool.
- Auto-Tuned Control Loops—Reduce commissioning time, eliminate change-of-season re-commissioning, and reduce wear and tear on mechanical devices.
- Universal Inputs, Configurable Outputs, and Point Expansion Modules—Allows multiple signal options to provide input/output flexibility.
- Optional Local User Interface Display —Allows convenient monitoring and adjusting capabilities at the local device.
- BACnet® Testing Laboratories (BTL) Listed—Ensures interoperability with other BTL-listed devices. BTL is a third-party agency, which validates that BAS vendor products meet the BACnet industry-standard protocol.
- 32-bit Microprocessor—Ensures optimum performance and meets industry specifications.
- BACnet Automatic Discovery—Supports easy controller integration into a Metasys BAS.
- End-of-Line (EOL) Switch in MS/TP Field Controllers Enables field controllers to be terminating devices on the communications bus.
- Pluggable Communications Bus and Supply Power Terminal Blocks—Expedites installation and troubleshooting.
- Patented proportional adaptive control (P-Adaptive) and Pattern Recognition Adaptive Control (PRAC) technologies—Provide continuous loop tuning.
- Wireless Connectivity through the ZFR1800 Series or the WNC1800/ZFR182x Pro Series Wireless Field Bus Systems in MS/TP Controllers—Enables wireless mesh connectivity to supervisory controllers, facilitating easy initial location and relocation.
- Writable Flash Memory—Allows standard or customized applications to be downloaded from the Controller Configuration Tool (CCT) and enables persistent application data.
- Large Product Family—Provides a wide range of point mix to meet application requirements and allows for the addition of one or more Input/Output Module (IOM) and Network Sensors to provide even more I/O capacity.
- User-Friendly Graphic Theme and Clear Pushbutton Identification—Facilitate easy navigation of the integral or optional Ul/display.



Table 1: FEC Series Model Information (Including Point Type Counts)

		FEC2511 ¹	FEC16	FEC26
Communication Protocol		BACnet MS/TP, N2		
Engines		All Model types. Some NIE models support MS/TP and N2 devices. Refer to the Network Engines Product Bulletin (LIT-12012138) for details.		
Modular Jacks		6-pin SA Bus Modular Port supports one communicating sensor. Or you can wire up to four communicating sensors to the SA Bus Terminal Block. They cannot be used at the same time.		
			6-pin FC Bus for tool support	
Point Types	Signals Accepted			
Universal Input (UI)	Analog Input, Voltage Mode, 0–10 VDC Analog Input, Current Mode, 4–20 mA ² Analog Input, Resistive Mode, 0–2k ohm, resistance temperature detector (RTD) (1k NI [Johnson Controls], 1k PT, A99B SI), negative temperature coefficient (NTC) (10k Type L, 2.252k Type 2) Binary Input, Dry Contact Maintained Mode	4 (Does not support Current Mode)	2	6
Binary Input (BI)	Dry Contact Maintained Mode Pulse Counter/Accumulator Mode (High Speed), 100 Hz	6	1	2
Analog Output (AO)	Analog Output, Voltage Mode, 0–10 VDC Analog Output, Current Mode, 4–20 mA	2 (Does not support Current Mode)		2
Binary Output (BO)	24 VAC Triac	2 (External Power Only)	3	3
Configurable Output (CO)	Analog Output, Voltage Mode, 0–10 VDC Binary Output Mode, 24 VAC Triac	2	4	4

The FEC2511 is currently only available in Europe. Contact your local Johnson Controls representative for more information. Analog Input, Current Mode is set by hardware for the FEC26, and by software for the FEC16.

Table 2: FEC Series Ordering Information

Product Code Number	ode Number Description		
MS-FEC1611-1 10-Point Field Equipment Controller with 2 UI, 1 BI, 3 BO, and 4 CO; 24 VAC; FC and SA Bus Support			
MS-FEC1611-1ET	10-Point Field Equipment Controller Extended Temperature controller for rooftop applications. Supports Operational Temperature of -40 to 70°C (-40 to 158°F).		
MS-FEC1621-1	10-Point Field Equipment Controller with 2 UI, 1 BI, 3 BO, and 4 CO; 24 VAC; FC and SA Bus Support; Integral Display an 6-Button Navigation Touchpad		
MS-FEC2511-0 ¹	16-Point Field Equipment Controller with 4 UI, 6 BI, 2 AO, 2 BO, and 2 CO; 24 VAC; FC and SA Bus Support. The FEC2511 model does not support current mode.		
MS-FEC2611-0	17-Point Field Equipment Controller with 6 UI, 2 BI, 3 BO, 2 AO, and 4 CO; 24 VAC; FC and SA Bus Support		
MS-FEC2611-0ET	FEC2611 Extended Temperature controller for rooftop applications. Supports Operational Temperature Range of -40 to 70°C (-40 to 158°F).		
MS-FEC2621-0	17-Point Field Equipment Controller with 6 UI, 2 BI, 3 BO, 2 AO, and 4 CO; 24 VAC; FC and SA Bus Support; Integral Display and 6-Button Navigation Touchpad		

¹ This model is currently only available in Europe. Contact your local Johnson Controls representative for more information.

Table 3: FEC Series for Smoke Control Ordering Information

Product Code Number ^{1,2}	Description
MS-FEC1611-1U	10-Point Field Equipment Controller with 2 UI, 1 BI, 3 BO, and 4 CO; 24 VAC, FC and SA Bus, with Mounting Base
MS-FEU1610-0U	10-Point Field Equipment Controller with 2 UI, 1 BI, 3 BO, and 4 CO; 24 VAC; FC and SA Bus Support; with Mounting Base
MS-FEC2611-0U	17-Point Field Equipment Controller with 6 UI, 2 BI, 3 BO, 2 AO, and 4 CO; 24 VAC, FC and SA Bus, with Mounting Base

Table 3: FEC Series for Smoke Control Ordering Information

Product Code Number ^{1,2}	Description
MS-FEC2621-0U	17-Point Field Equipment Controller with 6 UI, 2 BI, 3 BO, 2 AO, and 4 CO; 24 VAC; FC and SA Bus Support; Integral Display and 6-Button Navigation Touchpad
MS-FEU2610-0U	17-Point Field Equipment Controller with 6 UI, 2 BI, 3 BO, 2 AO, and 4 CO; 24 VAC; FC and SA Bus Support; with Mounting Base

¹ These devices are UL/ULC 864 Listed, File S4977, 10th Edition UUKL/ORD-C100-13 UUKLC Smoke Control System. These devices must be ordered in a Smoke Control UUKL listing.

Accessories

Table 4: FEC Accessories

Product Code Number	Description			
Mobile Access portal (MAP) Gateway ¹	Refer to the Mobile Access Portal Gateway Catalog Page (LIT-1900869) to identify the appropriate product for your region.			
MS-DIS1710-0	Local Controller Display: Refer to Local Controller Display Product Bulletin (LIT-12011273) for more information.			
MS-BTCVT-1 ¹	Wireless Commissioning Converter with Bluetooth Technology			
MS-BTCVTCBL-700 ¹	Cable Replacement Set for the MS-BTCVT-1 or the NS-ATV7003-0; Includes One 5 ft (1.5 m) Retractable Cable			
WRZ Series Wireless Room Sensors ¹	Refer to the WRZ Series Wireless Room Sensors Product Bulletin (LIT-12011653) for specific sensor model descriptions.			
ZFR1800 Series Wireless Field Bus System ¹	This system is used for installations that only support BACnet MS/TP. Refer to the WNC1800/ZFR182x Pro Series Wireless Field Bus System Product Bulletin (LIT-12012320) for a list of available products.			
NS Series Network Sensors	Refer to the NS Series Network Sensors Product Bulletin (LIT-12011574) for specific sensor model descriptions.			
Y64T15-0 ¹	Transformer, 120/208/240 VAC Primary to 24 VAC Secondary, 92 VA, Foot Mount, 30 in. Primary Leads and 30 in. Secondary, 92 VA, Foot Mount, 30 in. Primary Leads and 30 in. Secondary, 92 VA, Foot Mount, 30 in. Primary Leads and 30 in. Secondary, 92 VA, Foot Mount, 30 in. Primary Leads and 30 in. Secondary, 92 VA, Foot Mount, 30 in. Primary Leads and 30 in. Secondary, 92 VA, Foot Mount, 30 in. Primary Leads and 30 in. Secondary, 92 VA, Foot Mount, 30 in. Primary Leads and 30 in. Secondary, 92 VA, Foot Mount, 30 in. Primary Leads and 30 in. Secondary, 92 VA, Foot Mount, 30 in. Primary Leads and 30 in. Secondary, 92 VA, Foot Mount, 30 in. Primary Leads and 30 in. Secondary, 92 VA, Foot Mount, 30 in. Primary Leads and 30 in. Secondary, 92 VA, Foot Mount, 30 in. Primary Leads and 30 in. Secondary, 92 VA, Foot Mount, 30 in. Primary Leads and 30 in. Secondary, 92 VA, Foot Mount, 30 in. Primary Leads and 30 in. Secondary, 92 VA, Foot Mount, 30 in. Primary Leads and 30 in. Secondary, 92 VA, Foot Mount, 30 in. Primary Leads and 30 in. Secondary Leads and 30 in. Secondar			
Y65A13-0 ¹	Transformer, 120 VAC Primary to 24 VAC Secondary, 40 VA, Foot Mount (Y65AS), 8 in. Primary Leads and 30 in. Second Leads, Class 2			
Y65T42-0	Transformer, 120/208/240 VAC Primary to 24 VAC Secondary, 40 VA, Hub Mount (Y65SP+), 8 in. Primary Leads and Secondary Screw Terminals, Class 2			
Y65T31-0 ¹	Transformer, 120/208/240 VAC Primary to 24 VAC Secondary, 40 VA, Foot Mount (Y65AR+), 8 in. Primary Leads and Secon Screw Terminals, Class 2			
AP-TBK4SA-0	Replacement MS/TP SA Bus Terminal, 4-Position Connector, Brown (Bulk Pack of 10)			
AP-TBK4FC-0	Replacement MS/TP FC Bus Terminal, 4-Position Connector (Bulk Pack of 10)			
AP-TBK3PW-0	Replacement Power Terminal, 3-Position Connector, Gray (Bulk Pack of 10)			
AS-CBLTSTAT-0	Cable adapter that provides a connection between 8-pin TE-6700 Series sensors and field controllers that do not have a 8-sensor connection.			
ZFR-USBHA-0 ¹	ZFR USB Dongle provides a wireless connection through CCT to allow wireless commissioning of the wirelessly enabled FEC, Advanced Application Field Equipment Controller (FAC), IOM, and VMA16 controllers. Also allows use of the ZFR Checkout Tool (ZCT) in CCT.			
	Note: The ZFR-USBHA-0 replaces the IA OEM DAUBI_2400 ZigBee® USB dongle. For additional information on the ZFR-USBHA-0 ZigBee dongle, refer to the ZFR1800 Series Wireless Field Bus System Technical Bulletin (LIT-12011295) or ZFR1800 Series Wireless Field Bus System Quick Reference Guide (LIT-12011630).			
TL-BRTRP-0 ¹	Portable BACnet IP to MS/TP Router			
	1			

¹ This accessory is not qualified for use with a UL 864 UUKL/UUKLC 10th Edition Listed Smoke Control system.

All field controllers in a smoke control system must be mounted in Johnson Controls custom or standard UL 864 panels or in panels that are ordered from Johnson Controls. If these field controllers are used with panels that are not supplied by Johnson Controls, they are not compliant with the UL 864 10th Edition UUKL/ORD-C100-13 UUKLC Smoke Control System listing.

Table 5: FEC Series Technical Specifications

MS-FEC1611-1:10-Point FEC MS-FEC1611-1ET: FEC1611 Extended Temperature controller for rooftop applications. Supports of Range of -40 to 70°C (-40 to 158°F). MS-FEC1621-1: 10-Point FEC with Integral Display and Pushbutton User Interface MS-FEC2511-0¹: 16-Point FEC, only available in Europe MS-FEC2611-0: 17-Point FEC MS-FEC2611-0ET: FEC2611 Extended Temperature controller for rooftop applications. Supports of Range of -40 to 70°C (-40 to 158°F). MS-FEC2621-0: 17-Point FEC with Integral Display and Push Button User Interface Smoke Control Models: MS-FEC1611-0U: 10-Point FEC MS-FEC1611-0U: 10-Point FEC			
Range of -40 to 70°C (-40 to 158°F). MS-FEC1621-1: 10-Point FEC with Integral Display and Pushbutton User Interface MS-FEC2511-0¹: 16-Point FEC, only available in Europe MS-FEC2611-0: 17-Point FEC MS-FEC2611-0ET: FEC2611 Extended Temperature controller for rooftop applications. Supports Range of -40 to 70°C (-40 to 158°F). MS-FEC2621-0: 17-Point FEC with Integral Display and Push Button User Interface Smoke Control Models: MS-FEC1611-0U: 10-Point FEC MS-FEU1610-0U: 10-Point FEC			
MS-FEC2511-0 ¹ : 16-Point FEC, only available in Europe MS-FEC2611-0: 17-Point FEC MS-FEC2611-0ET: FEC2611 Extended Temperature controller for rooftop applications. Supports Range of -40 to 70°C (-40 to 158°F). MS-FEC2621-0: 17-Point FEC with Integral Display and Push Button User Interface Smoke Control Models: MS-FEC1611-0U: 10-Point FEC MS-FEU1610-0U: 10-Point FEC	Operational Temperature		
MS-FEC2611-0: 17-Point FEC MS-FEC2611-0ET: FEC2611 Extended Temperature controller for rooftop applications. Supports Range of -40 to 70°C (-40 to 158°F). MS-FEC2621-0: 17-Point FEC with Integral Display and Push Button User Interface Smoke Control Models: MS-FEC1611-0U: 10-Point FEC MS-FEU1610-0U: 10-Point FEC	Operational Temperature		
MS-FEC2611-0ET: FEC2611 Extended Temperature controller for rooftop applications. Supports of Range of -40 to 70°C (-40 to 158°F). MS-FEC2621-0: 17-Point FEC with Integral Display and Push Button User Interface Smoke Control Models: MS-FEC1611-0U: 10-Point FEC MS-FEU1610-0U: 10-Point FEC	Operational Temperature		
Range of -40 to 70°C (-40 to 158°F). MS-FEC2621-0: 17-Point FEC with Integral Display and Push Button User Interface Smoke Control Models: MS-FEC1611-0U: 10-Point FEC MS-FEU1610-0U: 10-Point FEC	Operational Temperature		
Smoke Control Models: MS-FEC1611-0U: 10-Point FEC MS-FEU1610-0U: 10-Point FEC			
MS-FEC1611-0U: 10-Point FEC MS-FEU1610-0U: 10-Point FEC			
MS-FEU1610-0U: 10-Point FEC			
MC EEC2644 OU. 47 Doint EEC			
MS-FEC2611-0U: 17-Point FEC MS-FEU2610-0U: 17-Point FEC			
			Supply Voltage MS-FEC1611-x, MS-FEC1611-1ET, MS-FEC2511-0 ¹ , MS-FEC2611-0, MS-FEC2611-0ET, MS-FE MS-FEUx610-0U: 24 VAC (nominal, 20 VAC minimum/30 VAC maximum), 50/60 Hz, Power Supplication, Extra-Low Voltage (SELV) (Europe)
Power Consumption MS-FEC2511-0 ¹ : 14 VA maximum (no integral display)			
MS-FEC1621-1 and MS-FEC2621-0 (with integral display): 20VA maximum	MS-FEC1621-1 and MS-FEC2621-0 (with integral display): 20VA maximum		
Note: VA ratings do not include any power supplied to the peripheral devices connected to Binary C Outputs (COs), which can consume up to 12 VA for each BO or CO, for a possible total consumpt (maximum).			
Ambient Conditions Operating: 0 to 50°C (32 to 122°F); 10 to 90% RH noncondensing			
Storage: -40 to 80°C (-40 to 176°F); 5 to 95% RH noncondensing			
Note: FEC models with an -xET suffix have an operating temperature range of -40 to 70°C (-40 to	158°F).		
Controller Addressing For BACnet-configured controllers: DIP switch set; valid field controller device addresses 4–12 128-255 are reserved)	77 (device addresses 0–3 and		
For N2-configured controllers: DIP switch set; valid control device addresses 1–255			
Communications Bus ² RS-485, field selectable between BACnet MS/TP and N2 communications:			
3-wire FC Bus between the supervisory controller and field controllers			
4-wire SA Bus between field controller, network sensors, and other sensor/actuator devices, inclusupply power (from field controller) to bus devices	des a lead to source 15 VDC		
Processor MS-FEC16, MS-FEC26, MS-FEU16, and MS-FEU26 models: H8SX/166xR Renesas® 32-bit mid	crocontroller		
MS-FEC2511-0 ¹ : RX631 Renesas, 32-bit microcontroller			
Memory MS-FEC16, MS-FEC26, MS-FEU16, and MS-FEU26 models: 1 MB Flash Memory and 512 KB	RAM		
MS-FEC2511-0 ¹ : 4 MB Flash Memory and 8 MB SDRAM			

Table 5: FEC Series Technical Specifications

2 - Universal Inputs: Defined as 0–10 VDC, 4–20 mA, 0–600k ohm, or Binary Dry Contact 1 - Binary Inputs: Defined as Dry Contact Maintained or Pulse Counter/Accumulator Mode 3 - Binary Outputs: Defined as 24 VAC Triac (selectable internal or external source power) 4 - Configurable Outputs: Defined as 0–10 VDC or 24 VAC Triac BO MS-FEC2511-0 ¹ Models: 4 - Universal Inputs: Defined as 0–10 VDC, 0–600k ohm, or Binary Dry Contact			
3 - Binary Outputs: Defined as 24 VAC Triac (selectable internal or external source power) 4 - Configurable Outputs: Defined as 0–10 VDC or 24 VAC Triac BO MS-FEC2511-0 ¹ Models:			
4 - Configurable Outputs: Defined as 0–10 VDC or 24 VAC Triac BO MS-FEC2511-0 ¹ Models:			
MS-FEC2511-0 ¹ Models:			
4 - Universal Inputs: Defined as 0–10 VDC, 0–600k ohm, or Binary Dry Contact			
6 - Binary Inputs: Defined as Dry Contact Maintained or Pulse Counter/Accumulator Mode	6 - Binary Inputs: Defined as Dry Contact Maintained or Pulse Counter/Accumulator Mode		
2 - Binary Outputs: Does not have internal 24 VAC source, external power is required	2 - Binary Outputs: Does not have internal 24 VAC source, external power is required		
2 - Configurable Outputs: Defined as 0–10 VDC or 24 VAC Triac BO	2 - Configurable Outputs: Defined as 0–10 VDC or 24 VAC Triac BO		
2 - Analog Outputs: Defined as 0–10 VDC			
MS-FEC26 Models:	MS-FEC26 Models:		
6 - Universal Inputs: Defined as 0–10 VDC, 4–20 mA, 0–600k ohm, or Binary Dry Contact	6 - Universal Inputs: Defined as 0–10 VDC, 4–20 mA, 0–600k ohm, or Binary Dry Contact		
2 - Binary Inputs: Defined as Dry Contact Maintained or Pulse Counter/Accumulator Mode	2 - Binary Inputs: Defined as Dry Contact Maintained or Pulse Counter/Accumulator Mode		
3 - Binary Outputs: Defined as 24 VAC Triac (selectable internal or external source power)	3 - Binary Outputs: Defined as 24 VAC Triac (selectable internal or external source power)		
4 - Configurable Outputs: Defined as 0–10 VDC or 24 VAC Triac BO	4 - Configurable Outputs: Defined as 0–10 VDC or 24 VAC Triac BO		
2 - Analog Outputs: Defined as 0–10 VDC or 4–20 mA	2 - Analog Outputs: Defined as 0–10 VDC or 4–20 mA		
Analog Input/Analog Output MS-FEC16, MS-FEC26, MS-FEU16, and MS-FEU26 models: Analog Input: 16-bit resolu	ition		
Resolution and Accuracy Analog Output: 16-bit resolution and ±200 mV in 0–10 VDC applications	Analog Output: 16-bit resolution and ±200 mV in 0–10 VDC applications		
MS-FEC2511-0 ¹ : Analog Input: 15-bit resolution			
Terminations MS-FEC16 and MS-FEC26 models:			
Input/Output: Fixed Screw Terminal Blocks			
FC Bus, SA Bus, and Supply Power: 3-wire and 4-wire Pluggable Screw Terminal Blocks	FC Bus, SA Bus, and Supply Power: 3-wire and 4-wire Pluggable Screw Terminal Blocks		
FC Bus and SA Bus Port: RJ-12 6-pin Modular Jacks			
MS-FEC2511-0 ¹ :			
Input/Output: Fixed Screw Terminal Blocks			
FC Bus, SA Bus, and Supply Power: 3-wire and 4-wire Pluggable Screw Terminal Blocks			
SA Bus Port: RJ-12 6-pin Modular Jack			
Mounting Horizontal on single 35 mm DIN rail mount (preferred), or screw mount on flat surface with controller	three integral mounting clips on		
Housing MS-FEC16 and MS-FEC26 models: Enclosure material: ABS and polycarbonate UL94 5\\ protection class: IP20 (IEC529)	VB; self-extinguishing; Plenum-rated		
MS-FEC2511-0 ¹ : Enclosure material: ABS and polycarbonate, Rating V0 minimum Protect	tion Class: IP20 (IEC529)		
Dimensions (Height x Width x Depth) MS-FEC16 Models: 150 x 164 x 53 mm (5-7/8 x 6-7/16 x 2-1/8 in.) including terminals and	d mounting clips		
MS-FEC2511-0 ¹ : 150 x 164 x 48 mm (5-7/8 x 6-7/16 x 1-7/8 in.) including terminals and m	nounting clips		
MS-FEC26 Models: 150 x 190 x 53 mm (5-7/8 x 7-1/2 x 2-1/8 in.) including terminals and	mounting clips		
Note: Mounting space for all field controllers requires an additional 50 mm (2 in.) space on to for easy cover removal, ventilation, and wire terminations.	op, bottom, and front face of controller		
Weight MS-FEC16 Models: 0.4 kg (0.9 lb)			
MS-FEC25 and MS-FEC26 Models: 0.5 kg (1.1 lb)			

Table 5: FEC Series Technical Specifications

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United States: UL Listed, File E107041, CCN PAZX, UL 916, Energy Management Equipment; FCC Compliant to CFR47, Part 15, Subpart B, Class A

UL Listed, File S4977, UL 864 UUKL/UUKLC 10th Edition Listed, Smoke Control Units and Accessories for Fire Alarm Systems Equipment (models with **U** product code suffix only)

CE

Canada: UL Listed, File E107041, CCN PAZX7, CAN/CSA C22.2 No. 205, Signal Equipment; Industry Canada Compliant, ICES-003

UL Listed, File S4977, UL 864 UUKL/ORD-C100-13 10th Edition Listed, Smoke Control Units and Accessories for Fire Alarm Systems (models with **U** product code suffix only)

Europe: CE Mark – Johnson Controls declares that this product is in compliance with the essential requirements and other relevant provisions of the EMC Directive.

Australia and New Zealand: RCM Mark, Australia/NZ Emissions Compliant

BACnet International:

MS-FEC16 and MS-FEC26 Models: BACnet Testing Laboratories (BTL) Protocol Revision 4 Listed BACnet Application Specific Controller (B-ASC)

MS-FEC2511-0¹: BACnet Testing Laboratories Protocol Revision 9 Listed BACnet Application Specific Controller (B-ASC)

- 1 MS-FEC2511-0 is currently only available in Europe. Contact your local Johnson Controls representative for more information.
- 2 For more information, refer to the MS/TP Communications Bus Technical Bulletin (LIT-12011034).

The performance specifications are nominal and conform to acceptable industry standards. For application at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls shall not be liable for damages resulting from misapplication or misuse of its products.



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