

BAS CONTROLLERS
Field Controllers

MSEA Controllers

FEC/FAC

Field Equipment Controller

The Metasys® Field Equipment Controllers (FEC) are a complete family of BACnet® compatible field controllers and accessories designed with the flexibility to meet a wide range of your HVAC control applications. Built on the ASHRAE standard for building automation system control and communication, these controllers support Johnson Controls commitment to open communication standards and greater control options for you.

The FEC family includes the 10-point FEC1600 and the 17-point FEC2600, as well as I/O expandability and VAV application specific controllers, all seamlessly integrated with the Metasys® building management system. FEC controllers are available with optional LCD display.

FAC Series controllers feature an integral real-time clock and support time-based tasks, which enables these field controllers to monitor and control schedules, calendars, alarms and trends.



Features

- Supports peer-to-peer communications
- Continuous tuning adaptive control provides more efficient control and reduces level of manual intervention
- Advanced diagnostics for failure detection, resolution and prevention
- Standard packaging and terminations simplify installation
- Field Equipment Controllers have been tested by the BACnet Testing Labs (BTL) and are certified as BACnet application specific controllers
- FAC models feature an integral real time clock with on-board time schedules, calendars, trends and alarms and are BTL certified as BACnet Advanced Application Controllers (B-AAC)

Point Type Counts per Model

Point Types	Signals Accepted	FEC16	FEC/FAC2611	FAC2612	FAC3611
Universal Input (UI)	Analog input, voltage mode, 0–10 VDC Analog input, current mode, 4–20 mA Analog input, resistive mode, 0–2k ohm, RTD (1k NI [Johnson Controls], 1k PT, A99B SI), NTC (10k type L, 2.252k type 2) Binary input, dry contact maintained mode	2	6	5	8
Binary Input (BI)	Dry contact maintained mode Pulse counter/accumulator mode (high speed), 100 Hz (50 Hz – FAC3611)	1	2	4	6
Analog Output (AO)	Analog output, voltage mode, 0–10 VDC Analog output, current mode, 4–20 mA	0	2	0	6
Binary Output (BO)	24 VAC triac	3	3	0	6
Configurable Output (CO)	Analog output, voltage mode, 0–10 VDC Binary output mode, 24 VAC triac	4	4	4	0
Relay Outputs (RO)	240 VAC maximum voltage 1/3 hp 125 VAC, 1/2 hp 250 VAC 400 VA Pilot Duty at 240 VAC 200 VA Pilot Duty at 120 VAC 3 A Noninductive 24–240 VAC	0	0	5 (2 x SPDT) (3 x SPST)	0

Note:

Analog input, current mode is set by hardware for the FEC/FAC26 and as software for the FEC16.

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Ordering Codes	Description
MS-FEC1611	10-Point Field Equipment Controller with 2 UI, 1 BI, 3 BO and 4 CO; 24 VAC; SA Bus
MS-FEC1621	10-Point Field Equipment Controller with 2 UI, 1 BI, 3 BO and 4 CO; 24 VAC; SA Bus; Integral display
MS-FEC2611-0	17-Point Field Equipment Controller with 6 UI, 2 BI, 3 BO, 2 AO and 4 CO; 24 VAC; SA Bus
MS-FEC2621-0	17-point Field Controller with 6 UI, 2 BI, 3 BO, 2 AO and 4 CO; 24 VAC; SA Bus; Integral display
MS-FAC2611-0	17-Point Advanced Application Field Equipment Controller with 6 UI, 2 BI, 2 AO, 3 BO and 4 CO; 24 VAC; SA Bus
MS-FAC2612-1	18-Point Advanced Application Field Equipment Controller with 5 UI, 4 BI, 4 CO and 5 RO; 24 VAC; SA Bus; Pluggable Terminals
MS-FAC2612-2	18-Point Advanced Application Field Equipment Controller with 5 UI, 4 BI, 4 CO and 5 RO; 100-250 VAC; SA Bus; Pluggable Terminals
MS-FAC3611-0	26-point Advanced Application Field Controller with 8 UI, 6 BI, 6 AO and 6 BO; 24 VAC; SA Bus

Accessories

Ordering Codes	Description
MS-DIS1710-0	Local Controller Display for FEC1611, FEC2611, FAC2611 and FAC2612 Models
MS-BTCVT-1	BlueTooth wireless commissioning adaptor
MS-BTCVTCBL-700	Cable replacement Set for the MS-BTCVT-1 includes retractable 5 m cable
TL-BRTRP-0	Portable BACnet/IP to MS/TP Router. Includes 1.8m Cable and 1.5 m Ethernet cable
AP-TBK4SA-0	Replacement MS/TP SA Bus Terminal, 4-Position Connector, Brown, Bulk Pack
AP-TBK4FC-0	Replacement MS/TP FC Bus Terminal, 4-Position Connector, Blue, Bulk Pack
AP-TBK3PW-0	Replacement Power Terminal, 3-Position Connector, Grey, Bulk Pack
MS-TBKLV03-0	FAC2612, 3 Position Line Voltage Terminal Block. Includes 3 pieces (Grey)
MS-TBKRO02-0	FAC2612, 2 Position Relay Output Terminal Block. Includes 9 pieces, 3 of each position (Red)
MS-TBKRO03-0	FAC2612, 3 Position Relay Output Terminal Block. Includes 6 pieces, 3 of each position (Red)
MS-TBKCO04-0	FAC2612, 4 Position Configurable Output Terminal Block. Includes 6 pieces, 3 of each position (Black)
MS-TBKUI04-0	FAC2612, 4 Position Universal Input Terminal Block. Includes 9 pieces, 3 of each position (White)
MS-TBKUI05-0	FAC2612, 5 Position Universal Input Terminal Block. Includes 3 pieces (White)
MS-ZFR1810-0	Wireless Field Bus Coordinator, 10 mW Transmission Power. Functions with NAE35xx, NAE45xx, NAE55xx, and NCE25xx models.
MS-ZFR1811-0	Wireless Field Bus Router, 10 mW Transmission Power. Functions with Metasys BACnet FECs, VMA1600s, and WRZ-TTx Series Wireless Mesh Room Temperature Sensors.
ZFR-USBHA-0	USB Dongle with ZigBee™ Driver provides a wireless connection through CCT to allow wireless commissioning of the wireless enabled FEC, FAC, IOM, and VMA16 field controllers. Also allows use of the ZFR Checkout Tool (ZCT) in CCT

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FEC - Technical Specifications

Supply Voltage	24 VAC (nominal, 20 VAC minimum/30 VAC maximum), 50/60 Hz, Safety Extra-Low Voltage (SELV) (Europe)
Power Consumption	14 VA maximum for FEC1611 and FEC2611 (no integral display) 20 VA maximum for FEC1621 and FEC2621 (with integral display) Note: VA ratings do not include any power supplied to the peripheral devices connected to Binary Outputs (BOs) or Configurable Outputs (COs), which can consume up to 12 VA for each BO or CO, for a possible total consumption of an additional 84 VA (maximum).
Ambient Conditions	
<i>Operating</i>	0 to 50°C; 10 to 90% RH noncondensing
<i>Storage Temperature</i>	-40 to 80°C; 5 to 95% RH noncondensing
Controller Addressing	DIP switch set; valid field controller device addresses 4-127 (Device addresses 0-3 and 128-255 are reserved and not valid field controller addresses.)
Communications Bus	BACnet® MS/TP, RS-485: 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, includes a lead to source 15 VDC supply power (from field controller) to bus devices.
Processor	H8SX/166xR Renesas® microcontroller
Memory	1 MB flash memory and 512 KB Random Access Memory (RAM)
Input and Output Capabilities	
<i>FEC16 Models</i>	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
<i>FEC26 Models</i>	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 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 2 - Analog outputs: Defined as 0-10 VDC or 4-20 mA
Analog Input/Analog Output Resolution and Accuracy	Analog input: 16-bit resolution Analog output: 16-bit resolution and ±200 mV in 0-10 VDC applications
Terminations	Input/output: Fixed screw terminal blocks FC Bus, SA Bus and power supply: 3-wire and 4-wire pluggable screw terminal blocks FC Bus and SA Bus: RJ-12 6-pin modular jacks
Mounting	Horizontal on single 35 mm DIN rail mount (preferred) or screw mount on flat surface with three integral mounting clips on controller
Housing	Enclosure material: ABS and polycarbonate UL94 5VB; Self-extinguishing, plenum-rated protection class: IP20 (IEC529)
Dimensions (H x W x D)	
<i>FEC16 Models</i>	150 x 164 x 53 mm including terminals and mounting clips
<i>FEC26 Models</i>	150 x 190 x 53 mm including terminals and mounting clips Note: Mounting space for FEC16 and FEC26 models requires an additional 50 mm space on top, bottom, and front face of controller for easy cover removal, ventilation and wire terminations.
Weight	
<i>FEC16 Models</i>	0.4 kg
<i>FEC26 Models</i>	0.5 kg
Compliance	
<i>Europe</i>	CE Mark - Johnson Controls, Inc., declares that this product is in compliance with the essential requirements and other relevant provisions of the EMC Directive 2004/108/EC
<i>BACnet International</i>	BACnet Testing Laboratories (BTL) 135-2004 Listed BACnet Application Specific Controller (B-ASC)

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FAC - Technical Specifications (1/2)

Supply Voltage	
<i>FAC2611-0 and FAC2612-1</i>	24 VAC (nominal, 20 VAC minimum/30 VAC maximum), 50/60 Hz, Safety Extra-Low Voltage (SELV) (Europe)
<i>MS-FAC2612-2</i>	100 to 250 VAC, 50/60 Hz
Power Consumption	
	25 VA maximum Note: VA ratings do not include any power supplied to the peripheral devices connected to Binary Outputs (BOs) or Configurable Outputs (COs), which can consume up to 12 VA for each BO or CO; for a possible total consumption of an additional 84 VA (maximum).
Ambient Conditions	
<i>Operating</i>	0 to 50°C; 10 to 90% RH noncondensing
<i>Storage</i>	-40 to 80°C; 5 to 95% RH noncondensing
Controller Addressing	
	DIP switch set; valid field controller device addresses 4-127 (Device addresses 0-3 and 128-255 are reserved and not valid field controller addresses)
Communications Bus	
	BACnet® MS/TP, RS-485: 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, includes a lead to source 15 VDC supply power (from field controller) to bus devices.
Processor	
	H8SX/166xR Renesas® microcontroller (RS630 32-bit Renesas® microcontroller - FAC3611)
Memory	
	4 MB Flash Memory and 1 MB Random Access Memory (RAM)
Input and Output Capabilities	
<i>FAC2611-0</i>	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 - Analog Outputs: Defined as 0-10 VDC or 4-20 mA 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
<i>FAC2612-1 and FAC2612-2</i>	5 - Universal Inputs: Defined as 0-10 VDC, 4-20 mA, 0-600k ohm, or Binary Dry Contact 4 - Binary Inputs: Defined as Dry Contact Maintained or Pulse Counter/Accumulator Mode 4 - Configurable Outputs: Defined as 0-10 VDC or 24 VAC Triac BO 2 - Relay Outputs: (Single-Pole, Double-Throw) Rated as: 240 VAC maximum voltage 1/3 hp 125 VAC, 1/2 hp 250 VAC 400 VA Pilot Duty at 240 VAC 200 VA Pilot Duty at 120 VAC 3 A Noninductive 24-240 VAC 3 - Relay Outputs: (Single-Pole, Single-Throw) Rated as: 240 VAC maximum voltage 1/3 hp 125 VAC, 1/2 hp 250 VAC 400 VA Pilot Duty at 240 VAC 200 VA Pilot Duty at 120 VAC 3 A Noninductive 24-240 VAC
<i>FAC3611-0</i>	8 - Universal Inputs: Defined as 0-10 VDC, 4-20 mA, 60-600k ohm, or Binary Dry Contact 6 - Binary Inputs: Defined as Dry Contact Maintained or Pulse Counter/Accumulator Mode 6 - Analog Outputs: Defined as 0-10 VDC or 4-20 mA 6 - Binary Outputs: Defined as 24 VAC Triac (External source power only)
Analog Input/Analog Output Resolution and Accuracy	
	Analog Input: 16-bit resolution Analog Output: 16-bit resolution and ±200 mV in 0-10 VDC applications
Terminations	
	Input/Output: Fixed Screw Terminal Blocks (FAC2611 & FAC3611) Pluggable Terminal Blocks (FAC2612) FC Bus, SA Bus, and Supply Power: 3-Wire and 4-Wire Pluggable Screw Terminal Blocks FC Bus and SA Bus: RJ-12 6-Pin Modular Jacks

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FAC - Technical Specifications (2/2)

Mounting	Horizontal on single 35 mm DIN rail mount (preferred), or screw mount on flat surface with three integral mounting clips on controller
Housing	Enclosure material: ABS and polycarbonate UL94 5VB; Self-extinguishing, Plenum Rated. Protection Class: IP20 (IEC529)
Dimensions (H x W x D)	
<i>FAC2611-0</i>	150 x 190 x 53 mm including terminals and mounting clips
<i>FAC2612-x</i>	150 x 164 x 53 mm including terminals and mounting clips
<i>FAC3611-0</i>	150 x 220 x 57.5 mm including terminals and mounting clips
	Note: Mounting space for FAC models requires an additional 50 mm space on top, bottom, and front face of controller for easy cover removal, ventilation, and wire terminations.
Weight	0.5 kg
Compliance	
<i>Europe</i>	CE Mark – Johnson Controls, Inc., declares that this product is in compliance with the essential requirements and other relevant provisions of the EMC Directive 2004/108/EC.
<i>BACnet International</i>	BACnet Testing Laboratories™ (BTL) 135-2004 Listed BACnet Advanced Application Controller (B-AAC)

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IOM

Input/Output Modules

A range of Input/Output modules compatible with Metasys®. IOMs can serve in one of two capacities depending on where they are installed on the Metasys® system. When installed on the Sensor Actuator (SA) Bus of an Field Equipment Controller (FEC), the IOMs expand the point count of these controllers. When installed on the Field Controller (FC) Bus as point multiplexers, IOMs allow a Network Automation Engine (NAE) or Network Controller Engine (NCE) to monitor and control supervisory points directly. A full range of FEC/FAC models combined with the 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.



Features

- Expands controllers for larger applications
- Flexible configurations: 4, 6, 10, 12, 16 and 17-point expandability
- Integrates at both field and supervisory levels
- Models with 16 inputs for monitoring applications

Point Type Counts per Model

Point Types	Signals Accepted	IOM17	IOM27	IOM37	IOM47	IOM2721	IOM3721	IOM3731
Universal Input (UI)	Analog Input, Voltage Mode, 0 - 10 VDC Analog Input, Current Mode, 4 - 20 mA Analog Input, Resistive Mode, 0 - 2k ohm, RTD (1k NI [Johnson Controls], 1k PT, A99B SI), NTC (10k Type L, 2.252k Type 2) Binary Input, Dry Contact Maintained Mode	0	2	4	6	8	0	0
Binary Input (BI)	Dry Contact Maintained Mode Pulse Counter Mode (High Speed), 100 Hz	4	0	0	2	0	16	8
Analog Output (AO)	Analog Output, Voltage Mode, 0 - 10 VDC Analog Output, Current Mode, 4 - 20 mA	0	0	0	2	2	0	0
Binary Output (BO)	24 VAC Triac	0	0	0	3	0	0	8
Universal Output (UO)	Analog Output, Voltage Mode, 0 - 10 VDC Binary Output Mode, 24 V AC/DC FET Analog Output, Current Mode, 4 - 20 mA	0	2	4	0	0	0	0
Configurable Output (CO)	Analog Output, Voltage Mode, 0-10 VDC Binary Output Mode, 24 VAC Triac	0	0	0	4	0	0	0
Relay Output	Maximum voltage 24 VAC (240VAC; -2 models only)	0	2	4	0	0	0	0

Ordering Codes	Description
MS-IOM1711-0	Input Module, 4 Binary Inputs
MS-IOM2711-1	Input/Output Module, 2 Universal Inputs, 2 Relay Outputs (Max 24 VAC), 2 Universal Outputs
MS-IOM2711-2	Input/Output Module, 2 Universal Inputs, 2 Relay Outputs (Max 240 VAC), 2 Universal Outputs
MS-IOM3711-1	Input/Output Module, 4 Universal Inputs, 4 Relay Outputs (Max 24 VAC), 4 Universal Outputs
MS-IOM3711-2	Input/Output Module, 4 Universal Inputs, 4 Relay Outputs (Max 240 VAC), 4 Universal Outputs
MS-IOM4711-0	Input/Output Module, 6 Universal Inputs, 2 Binary Inputs, 3 Binary Outputs, 4 Configurable Outputs, 2 Analog Outputs
MS-IOM2721-0	Input Output Module with 8 Universal Inputs and 2 Analog Outputs, 24 VAC
MS-IOM3721-0	Input Output Module with 16 Binary Inputs, 24 VAC
MS-IOM3731-0	Input Output Module with 8 Binary Inputs and 8 Binary Outputs, 24 VAC

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Technical Specifications

Supply Voltage	24 VAC (nominal, 20 VAC minimum/30 VAC maximum), 50/60 Hz, Safety Extra-Low Voltage (SELV) Europe
Power Consumption	14 VA maximum Note: VA rating does not include any power supplied to the peripheral devices connected to Binary Outputs (BOs) or Configurable Outputs (COs), which can consume up to 12 VA for each BO or CO; for a possible total consumption of an additional 84 VA (maximum).
Ambient Conditions	
Operating	0 to 50°C; 10 to 90% RH noncondensing
Storage Temperature	-40 to 80°C; 5 to 95% RH noncondensing
Controller Addressing	DIP switch set; valid field controller device addresses 4–127 (Device addresses 0–3 and 128–255 are reserved and not valid IOM addresses.)
Communications Bus	BACnet® MS/TP, RS-485: 3-wire FC Bus between the supervisory controller and field devices 4-wire SA Bus between field controller, network sensors, and other sensor/actuator devices, includes a lead to source 15 VDC supply power (from field controller) to bus devices*.
Processor	H8SX/166xR Renesas® 32-bit microcontroller
Memory	1 MB Flash Memory and 512 KB Random Access Memory (RAM)
IOM17, IOM27, and IOM37 Models	640 KB Flash Memory and 128 KB Random Access Memory (RAM)
IOM47 Models	1 MB Flash Memory and 512 KB RAM
Input and Output Capabilities	Analog Input: 16-bit resolution Analog Output: 16-bit resolution and ±200 mV in 0–10 VDC applications
IOM1711	4 – Binary Inputs: Defined as Dry Contact Maintained or Pulse Counter/Accumulator Mode
IOM2711	2 – Universal Inputs: Defined as 0–10 VDC, 4–20 mA, 0–600k ohm, or Binary Dry Contact 2 – Universal Outputs: Analog Output mode – 0–10 VDC, Binary Output Mode – 24 VAC/VDC Field-effect Transistor 2 – Relay Outputs (Single-Pole, Double-Throw) Rate as: 24 VAC Maximum Voltage 3A Non-inductive 24 VAC 6(4)A 240 VAC Maximum Voltage; MS-IOM2711-2 Model only
IOM2721	8 – Universal Inputs: Defined as 0–10 VDC, 4–20 mA, 0–600k ohm, or Binary Dry Contact 2 – Analog Outputs: Defined as 0–10 VDC or 4–20 mA
IOM3711	4 – Universal Inputs: Defined as 0–10 VDC, 4–20 mA, 0–600k ohm, or Binary Dry Contact 4 – Universal Outputs: Analog Output mode – 0–10 VDC, Binary Output Mode – 24 VAC/VDC Field-effect Transistor 4 – Relay Outputs (Single-Pole, Double-Throw) Rate as: 24 VAC Maximum Voltage 3A Non-inductive 24 VAC 6(4)A 240 VAC Maximum Voltage; MS-IOM3711-2 Model only
IOM3721	16 – Binary Inputs: Defined as Dry Contact Maintained or Pulse Counter/Accumulator Mode
IOM3731	8 – Binary Inputs: Defined as Dry Contact Maintained or Pulse Counter/Accumulator Mode 8 – Binary Outputs: Defined as 24 VAC Triac Note: Binary Outputs (BOs) on MS-IOM3731 controllers do not supply power for the outputs; the BOs require external low-voltage (< 30 VAC) power sources.
IOM4711	6 – Universal Inputs: Defined as 0–VDC, 4–20 mA, 0–600k ohm, or Binary Dry Contact 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) 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

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IOM

Technical Specifications

Analog Input/Analog Output Resolution and Accuracy	
<i>Analog Input</i>	16-bit resolution
<i>Analog Output</i>	16-bit resolution and ± 200 mV in 0–10 VDC applications
Terminations	Input/Output: Fixed Screw Terminal Blocks SA/FC Bus and Supply Power: 4-Wire and 3-Wire Pluggable Screw Terminal Blocks SA/FC Bus Port: RJ-12 6-Pin Modular Jacks
Mounting	Horizontal on single 35 mm DIN rail mount (preferred), or screw mount on flat surface with three integral mounting clips on controller
Housing	Enclosure material: ABS and polycarbonate UL94 5VB; Self-extinguishing, Plenum-rated Protection Class: IP20 (IEC529)
Dimensions (H x W x D)	
<i>IOM17xx and IOM271x Models</i>	150 x 120 x 53 mm including terminals and mounting clips
<i>IOM272x, IOM372x and IOM373x Models</i>	150 x 164 x 53 mm including terminals and mounting clips
<i>IOM37 and IOM47 Models</i>	150 x 190 x 53 mm including terminals and mounting clips
	Note: For all models, mounting space requires an additional 50 mm space on top, bottom, and front face of controller for easy removal, ventilation, and wire terminations.
Weight	0.5 Kg
Compliance	
<i>Europe</i>	CE Mark, EMC Directive 2004/108/EC, in accordance with EN 61000-6-3 (2007) Generic Emission Standard for Residential and Light Industrial and EN 61000-6-2 (2005) Generic Immunity Standard for Heavy Industrial Environment Note: For IOM17/IOM27/IOM37, Low Voltage Directive 73/23/EEC in accordance with EN 60730-1:2000/A2:2008 Automatic electrical controls for household and similar use. Note: For IOM47 Models, Conducted RF Immunity within EN 61000-6-2 meets performance criteria B.
<i>BACnet International</i>	BACnet Testing Laboratories (BTL) 135-2004 Listed BACnet Application Specific Controller (B-ASC)

Accessories

Ordering Codes	Description
AP-TBK4SA-0	Replacement MS/TP SA Bus Terminal, 4-Position Connector, Brown, Bulk Pack
AP-TBK4FC-0	Replacement MS/TP FC Bus Terminal, 4-Position Connector, Blue, Bulk Pack
AP-TBK3PW-0	Replacement Power Terminal, 3-Position Connector, Grey, Bulk Pack
MS-DIS1710-0	Local Controller Display for FEC1611, FEC2611 and FAC Models
MS-BTCVT-1	Wireless Commissioning Converter, with BluetoothR technology
MS-BTCVTCBL-700	Cable replacement Set for the MS-BTCVT-1 or the NS-ATV7003-0; includes one 5-foot retractable cable