Input/Output Module (IOM) Series Catalog Page

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Input/Output Module (IOM)

The IOM Series expansion I/O modules have integral RS-485 MS/TP communications and integrate into the web-based *Metasys*® system. IOMs can serve in one of two capacities, depending on where they are installed in the *Metasys* system. When installed on the Sensor/Actuator (SA) Bus of an Advanced Application Field Equipment Controller (FAC), Field Equipment Controller (FEC), or VAV Modular Assembly (VMA) controller, the IOM expands the point count of these controllers. When installed on the Field Controller (FC) Bus, IOMs can be used as I/O point multiplexors to support monitoring and control from a Network Automation Engine (NAE) or Network Control Engine (NCE). The point multiplexor can also be useful for sharing points between other field controllers on the FC Bus using peer-to-peer connectivity.

① **Note:** At Controller Configuration Tool (CCT) Release 10.1 and later, FACs, FECs, and VMAs can communicate by using either the BACnet® or the N2 field bus networking protocol. The operation of the IOM Input/Output Module is not affected by the selection of the BACnet or the N2 protocol in the host controller.

All IOM expansion modules are BACnet Testing Laboratory (BTL) listed and certified. Refer to Table 5 for details.

- **Important:** You cannot purchase a similar third-party device and install it in a UL/ULC Listed smoke control system. Doing so voids the UL/ULC Smoke Control Listing. Third-party devices must be provided and labeled by the factory as described in the UL/ULC 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 864 10th Edition UUKL/ORD-C100-13 UUKLC Smoke Control System. Installation of a product that is not UL/ULC Listed and labeled for this application prevents the entire system from being UL/ULC Listed for smoke control.



Figure 1: Input/Output Modules (IOM)

Application Documentation

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

- Ability to Reside on the FC Bus or SA Bus—Provides application flexibility.
- **Standard BACnet Protocol**—Provides interoperability with other Building Automatcion System (BAS) products that use the widely accepted BACnet standard.
- BACnet Testing Laboratories (BTL) Listed and Certified—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.
- **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.
- **Universal Inputs and Configurable Outputs**—Allows multiple signal options to provide input/output flexibility.
- 32-bit Microprocessor—Ensures optimum performance and meets industry specifications.
- **BACnet Automatic Discovery**—Supports easy controller integration into a *Metasys* BAS.
- **Pluggable Communications Bus and Supply Power Terminal Blocks**—Expedites installation and troubleshooting.
- 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.
- **Bluetooth**® **Wireless Commissioning**—Provides an easy-to-use connection to the configuration and commissioning tool.
- **End-of-Line (EOL) Switch in MS/TP Field Controllers** —Enables field controllers to be terminating devices on the communications bus.

IOM Series Model Information (Including Point Type Counts)

Note: The IOM2723, IOM3723, and IOM3733 models are only available in certain regions. Contact your local Johnson Controls representative for more information.

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

		IOM 1711	IOM 2711	IOM 2721	IOM 3711	IOM 3721	IOM 3731	IOM 4711	IOM 2723	IOM 3723	IOM 3733
Communicat	tion Protocol	BACnet									
Engines						s support 138) for d		nd N2 de	vices. Re	fer to the	e Network
Modular Jacl	ks	four cor same tir	nmunica ne.		sors to th	rts one co ne SA Bus					vire up to ed at the
Point Types	Signals Accepted				•	,	,				
Universal Input (UI)	Analog Input, Voltage Mode, 0–10 VDC		2	8	4			6	8		
	Analog Input, Current Mode, 4–20 mA										
	Analog Input, Resistive Mode, 0–2 kOhm, RTD (1k NI [Johnson Controls], 1k PT, A99B SI), NTC (10k Type L, 2.252k Type 2)										
	Binary Input, Dry Contact Maintained Mode										
Binary Input (BI)	Dry Contact Maintained Mode Pulse Counter/ Accumulator Mode (High Speed), 100 Hz	4				16	8	2		16	8
Analog Output (AO)	Analog Output, Voltage Mode, 0–10 VDC			2				2	2		
	Analog Output, Current Mode, 4–20 mA										
Binary Output (BO) ¹	24 VAC Triac						8	3			8

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

		IOM									
		1711	2711	2721	3711	3721	3731	4711	2723	3723	3733
Universal	Analog Output,		2		4						
Output (UO)	Voltage Mode, 0–10										
	VDC										
	Binary Output Mode,										
	24 VAC/DC Field-Effect										
	Transistor (FET)										
	Analog Output,										
	Current Mode, 4–20										
	mA										
Configurable	Analog Output,							4			
Output (CO)	Voltage Mode, 0–10										
	VDC										
	Binary Output Mode,										
	24 VAC Triac										
	120/240 VAC		2		4						
(RO)											
(-0 models											
only)			_								
Relay Output	240 VAC		2		4						
(RO)											
(-2 models											
only)											

¹ The BOs on the MS-IOM3733-0 model requires an external low-voltage power source.

IOM Series Ordering Information

Table 2: IOM Series Ordering Information

Product Code Number	Description	UL and cUL (Canada)	CE Marked
MS-IOM1711-0	4-Point IOM with 4 BI, FC Bus and SA Bus Support	X	X
MS-IOM2711-0	6-Point IOM with 2 UI, 2 UO, 2 BO, FC Bus, and SA Bus Support. Relays are rated for 120/240 VAC.	Х	
MS-IOM2711-2	6-Point IOM with 2 UI, 2 UO, 2 BO, FC Bus, and SA Bus Support. Relays are rated for 240 VAC.		Х
MS-IOM2721-0	10-Point IOM with 8 UI, 2 AO, FC Bus, and SA Bus Support	Х	Х
MS-IOM2723-0	10-Point IOM with 8 UI, 2 AO, FC Bus, and SA Bus Support	X	X
	• Note: This model is only available in certain regions. Contact your local Johnson Controls representative for more information.		
MS-IOM3711-0	12-Point IOM with 4 UI, 4 UO, 4 BO, FC Bus, and SA Bus Support. Relays are rated for 120/240 VAC.	X	

Table 2: IOM Series Ordering Information

Product Code Number	Description	UL and cUL (Canada)	CE Marked
MS-IOM3711-2	12-Point IOM with 4 UI, 4 UO, 4 BO, FC Bus, and SA Bus Support. Relays are rated for 240 VAC.		X
MS-IOM3721-0	16-Point IOM with 16 BI, FC Bus, and SA Bus Support	X	Χ
MS-IOM3723-0	16-Point IOM with 16 BI, FC Bus, and SA Bus Support	X	X
	Note: This model is only available in certain regions. Contact your local Johnson Controls representative for more information.		
MS-IOM3731-0	16-Point IOM with 8 BI, 8 BO, FC Bus, and SA Bus Support	Х	X
MS-IOM3733-0	16-Point IOM with 8 BI, 8 BO, FC Bus, and SA Bus Support	Х	X
	Binary Outputs (BOs) on MS-IOM3733 controllers do not supply power for the outputs; the BOs require external low-voltage (<30 VAC) power sources.		
	Note: This model is only available in certain regions. Contact your local Johnson Controls representative for more information.		
MS-IOM4711-0	17-Point IOM with 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, FC and SA Bus Support	X	X

IOM Series for Smoke Control Ordering Information

Table 3: IOM Series for Smoke Control Ordering Information

Product Code Number	Description
MS-IOM1710-0U	4-Point IOM with 4 BI; 24 VAC; FC Bus and SA Bus Support
MS-IOM1711-0U	4-Point IOM with 4 BI; 24 VAC; FC Bus and SA Bus Support
MS-IOM2710-0U	6-Point IOM with 2 UI, 2 UO, 2 BO; 24 VAC; FC Bus and SA Bus Support
MS-IOM2711-0U	6-Point IOM with 2 UI, 2 UO, 2 BO; 24 VAC; FC Bus and SA Bus Support
MS-IOM3710-0U	12-Point IOM with 4 UI, 4 UO, 4 BO; 24 VAC; FC Bus and SA Bus Support
MS-IOM3711-0U	12-Point IOM with 4 UI, 4 UO, 4 BO; 24 VAC; FC Bus and SA Bus Support
MS-IOU4710-0U	17-Point IOM with 6 UI, 2 BI, 3 BO, 2 AO, 4 CO; 24 VAC; FC Bus and SA Bus Support with Mounting Base
MS-IOM4711-0U	17-Point IOM with 6 UI, 2 BI, 3 BO, 2 AO, 4 CO; 24 VAC; FC Bus and SA Bus Support with Mounting Base

- Note: 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.
- **Note:** 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.

Accessories

• Note: The accessories marked with an asterisk (*) in the table are not qualified for use with a UL 864 UUKL/UUKLC 10th Edition Listed Smoke Control system.

Table 4: IOM Accessories

Product Code Number	Description
TL-CCT-0	Metasys Controller Configuration Tool (CCT) software
MS-FCP-0	Metasys Field Controller Firmware Package Files for CCT
Mobile Access Portal (MAP)	Refer to the <i>Mobile Access Portal Gateway Catalog Page (LIT-1900869)</i> to identify the appropriate product for your region.
Gateway*	Note: The MAP Gateway serves as a replacement for the BTCVT, which is no longer available for purchase, but continues to be supported.
ZFR1800 Series Wireless Field Bus System*	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.
ZFR-USBHA-0*	ZFR USB Dongle provides a wireless connection through CCT to allow wireless commissioning of the wirelessly enabled FEC, FAC, IOM, and VMA16 controllers. Also allows use of the ZFR Checkout Tool (ZCT) in CCT.
Y64T15-0*	Transformer, 120/208/240 VAC Primary to 24 VAC Secondary, 92 VA, Foot Mount, 30 in. Primary Leads and 30 in. Secondary Leads, Class 2
Y65A13-0*	Transformer, 120 VAC Primary to 24 VAC Secondary, 40 VA, Foot Mount (Y65AS), 8 in. Primary Leads and 30 in. Secondary 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	Transformer, 120/208/240 VAC Primary to 24 VAC Secondary, 40 VA, Foot Mount (Y65AR+), 8 in. Primary Leads and Secondary 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 for connection to 8-pin TE-6700 Series sensors
TL-BRTRP-0*	Portable BACnet/IP to MS/TP Router

Repair Information

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

IOM Series Technical Specifications

(i) **Note:** The MS-IOM2723-0, MS-IOM3723-0, and MS-IOM3733-0 models are only available in certain regions. Contact your local Johnson Controls representative for more information.

Table 5: IOM Series

Product Code	MS-IOM1711-0: 4-Point IOM with 4 BI, FC Bus and SA Bus Support
Numbers	MS-IOM2711-0: 6-Point IOM with 2 UI, 2 UO, 2 BO, FC Bus, and SA Bus
	Support. Relays are rated for 120/240 VAC
	MS-IOM2711-2: 6-Point IOM with 2 UI, 2 UO, 2 BO, FC Bus, and SA Bus Support. Relays are rated for 240 VAC.
	MS-IOM2721-0: 10-Point IOM with 8 UI, 2 AO, FC Bus, and SA Bus Support
	MS-IOM2723-0: 10-Point IOM with 8 UI, 2 AO, FC Bus, and SA Bus Support
	MS-IOM3711-0: 12-Point IOM with 4 UI, 4 UO, 4 BO, FC Bus, and SA Bus Support. Relays are rated for 120/240 VAC
	MS-IOM3711-2: 12-Point IOM with 4 UI, 4 UO, 4 BO, FC Bus, and SA Bus Support. Relays are rated for 240 VAC
	MS-IOM3721-0: 16-Point IOM with 16 BI, FC Bus, and SA Bus Support
	MS-IOM3723-0: 16-Point IOM with 16 BI, FC Bus, and SA Bus Support
	MS-IOM3731-0: 16-Point IOM with 8 BI, 8 BO, FC Bus, and SA Bus Support
	MS-IOM3733-0: 16-Point IOM with 8 BI, 8 BO, FC Bus, and SA Bus Support
	MS-IOM4711-0: 17-Point IOM with 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, FC and SA Bus Support
	Smoke Control Models:
	MS-IOM1710-0U: 4-Point IOM with 4 BI, FC Bus and SA Bus Support
	MS-IOM1711-0U: 4-Point IOM with 4 BI, FC Bus and SA Bus Support
	MS-IOM2710-0U: 6-Point IOM with 2 UI, 2 UO, 2 BO, FC Bus, and SA Bus Support
	MS-IOM2711-0U: 6-Point IOM with 2 UI, 2 UO, 2 BO, FC Bus, and SA Bus Support
	MS-IOM3710-0U: 12-Point IOM with 4 UI, 4 UO, 4 BO, FC Bus, and SA Bus Support
	MS-IOM3711-0U: 12-Point IOM with 4 UI, 4 UO, 4 BO, FC Bus, and SA Bus Support
	MS-IOU4710-0U: 17-Point IOM with 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, FC Bus and SA Bus Support with Mounting
	MS-IOM4711-0U: 17-Point IOM with 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, FC Bus and SA Bus Support with Mounting
Power	24 VAC (nominal, 20 VAC minimum/30 VAC maximum), 50/60 Hz, Power
Requirement	Supply Class 2 (North America), Safety Extra-Low Voltage (SELV) Europe

Table 5: IOM Series

Power	14 VA maximum
Consumption	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), depending on the IOM model.
Ambient	Operating: 0 to 50°C (32 to 122°F); 10 to 90% RH noncondensing
Conditions	Storage: -40 to 80°C (-40 to 176°F); 5 to 95% RH noncondensing
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	BACnet MS/TP, RS-485
Bus	3-wire FC Bus between the supervisory controller and expansion modules (for MS/TP bus communications at 38,400 baud)
	4-wire SA Bus between field controller, network sensors, and other sensor/actuator devices. Includes a lead source 15 VDC supply power (from controller or expansion module) to bus devices(for MS/TP bus communications at 38,400 baud).
	Note: For more information, refer to the MS/TP Communications Bus Technical Bulletin (LIT-12011034).
Processor	MS-IOM1711-0, MS-IOM2711-0, MS-IOM2711-2, MS-IOM2721-0, MS-IOM3711-0, MS-IOM3711-2, MS-IOM3731-0, and MS-IOM4711-0:
	H8SX/166xR Renesas® 32-bit microcontroller
	MS-IOM2723-0, MS-IOM3723-0, MS-IOM3733-0:
	RX631 Renesas 32-bit microcontroller
Memory	MS-IOM1711-0, MS-IOM2711-0, MS-IOM2711-2, MS-IOM2721-0, MS-IOM3711-0, MS-IOM3711-2, MS-IOM3731-0, and MS-IOM4711-0:
	512 KB Flash Memory and 128 KB RAM
	MS-IOM2723-0, MS-IOM3723-0, and MS-IOM3733-0:
	4 MB External Serial Flash Memory and 768 KB internal flash and 128 KB internal RAM
Input and Output	MS-IOM1711-0:
Capabilities	4 - Binary Inputs: Defined as Dry Contact Maintained or Pulse Counter/ Accumulator Mode

Table 5: IOM Series

MS-IOM2711-x:

- 2 Universal Inputs: Defined as 0–10 VDC, 4–20 mA, 0–600k ohm, or Binary Dry Contact
- 2 Universal Outputs: Analog Output: Voltage Mode, 0-10 VDC; Binary Output Mode: 24 VAC/DC FET; Analog Output: Current Mode, 4-20 mA
- 2 Relay Outputs: (Single-Pole, Double-Throw)

UL 916 (-0 model only): 1/4 hp 120 VAC, 1/2 hp 240 VAC; 360 VA Pilot Duty at 120/240 VAC (B300); 3 A Non-inductive 24-240 VAC

EN 60730 (-2 model only): 6 (4) A N.O. or N.C. only, 240 VAC

MS-IOM2721-0 and MS-IOM2723-0:

- 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

MS-IOM3711-x:

- 4 Universal Inputs: Defined as 0–10 VDC, 4–20 mA, 0–600k ohm, or Binary Dry Contact
- 4 Universal Outputs: Analog Output: Voltage Mode, 0-10 VDC; Binary Output Mode: 24 VAC/DC FET; Analog Output: Current Mode, 4-20 mA
- 4 Relay Outputs: (Single-Pole, Double-Throw)

UL 916 (-0 model only): 1/4 hp 120 VAC, 1/2 hp 240 VAC; 360 VA Pilot Duty at 120/240 VAC (B300); 3 A Non-inductive 24-240 VAC

EN 60730 (-2 model only): 6 (4) A N.O. or N.C. only, 240 VAC

MS-IOM3721-0 and MS-IOM3723-0:

16 - Binary Inputs: Defined as Dry Contact Maintained or Pulse Counter/ Accumulator Mode

MS-IOM3731-0 and MS-IOM3733-0:

- 8 Binary Inputs: Defined as Dry Contact Maintained or Pulse Counter/ Accumulator Mode
- 8 Binary Outputs: Defined as 24 VAC Triac (Require external low-voltage power source)
- **Note:** Binary Outputs (BOs) on MS-IOM3733-0 models do not supply power for the outputs; the BOs require external low-voltage (< 30 VAC) power sources.

Table 5: IOM Series

	MS-IOM4711-0:
	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	MS-IOM1711-0, MS-IOM2711-0, MS-IOM2711-2, MS-IOM2721-0, MS-IOM3711-0, MS-IOM3711-2, MS-IOM3731-0, and MS-IOM4711-0:
Resolution and Accuracy	Analog Input: 16-bit resolution
Accuracy	Analog Output: 16-bit resolution and ±200 mV in 0–10 VDC applications
	MS-IOM2723-0, MS-IOM3723-0, and MS-IOM3733-0:
	Analog Input: 15-bit resolution
	Analog Output: ±200 mV in 0–10 VDC applications
Terminations	MS-IOM1711-0, MS-IOM2711-0, MS-IOM2711-2, MS-IOM2721-0, MS-IOM3711-0, MS-IOM3711-2, MS-IOM3731-0, and MS-IOM4711-0:
	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
	MS-IOM2723-0, MS-IOM3723-0, and MS-IOM3733-0:
	Input/Output: Fixed Screw Terminal Blocks
	① Note: There are no labels on I/Oterminal blocks. The labels are above/ below the terminal blocks on theIOM packaging.
	SA/FC Bus and Supply Power: 4-wire and 3-wire Pluggable Screw Terminal Blocks
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)

Table 5: IOM Series

Dimensions MS-IOM1711 and MS-IOM2711 models: (Height x Width x $150 \times 120 \times 53 \text{ mm}$ (5-7/8 x 4-3/4 x 2-1/8 in.) including terminals and Depth) mounting clips MS-IOM2721-0, MS-IOM2723-0, MS-IOM3721-0, MS-IOM3723-0, MS-IOM3731-0, and MS-IOM3733-0 models: 150 x 164 x 53 mm (5-7/8 x 6-7/16 x 2-1/8 in.) including terminals and mounting clips MS-IOM3711-0 and MS-IOM4711-0 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 top, bottom, and front face of controller for easy cover removal, ventilation, and wire terminations. Weight 0.5 kg (1.1 lb) maximum Compliance United States: UL Listed, File E107041, CCN PAZX, UL 916, Energy Management Equipment; FCC Compliant to CFR47, Part 15, Subpart B, Class Α 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) Note: Except MS-IOM2711-2 and MS-IOM3711-2 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) i Note: Except MS-IOM2711-2 and MS-IOM3711-2 **Europe:** CE Mark – Johnson Controls declares that this product is in compliance with the essential requirements and other relevant provisions of the EMC Directive and RoHS Directive. Declared as Independently Mounted, ϵ Intended for Panel Mounting, Operating Control Type 1.B, 4kV rated impulse voltage, 100.7°C ball pressure test. Note: Except MS-IOM2711-0 and MS-IOM3711-0 Australia and New Zealand: RCM Mark, Australia/NZ Emissions Compliant (i) Note: Except MS-IOM2711-0 and MS-IOM3711-0 **BACnet International:** MS-IOM1711-0, MS-IOM2711-0, MS-IOM2711-2, MS-IOM2721-0, MS-IOM3711-0, MS-IOM3711-2, MS-IOM3731-0, and MS-IOM4711-0: BACnet Testing Laboratories (BTL) Protocol Revision 4 Listed BACnet Application Specific Controller (B-ASC) MS-IOM2723-0, MS-IOM3723-0, and MS-IOM3733-0: BACnet Testing Laboratories (BTL) Protocol Revision 15 listed and certified BACnet Smart

Actuator (B-SA)

