

FX-BTCVT Bluetooth® Commissioning Converter Catalog Page

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The Bluetooth Commissioning Converter (FX-BTCVT) provides a temporary Bluetooth connection between FX-PC Series Controllers and the laptop computer used to commission them. It allows technicians to commission and service the controllers over a wireless connection (Figure 1).

The FX-BTCVT Bluetooth Commissioning Converter provides communication from the BACnet® Master-Slave/Token-Passing (MS/TP) Field Controller (FC) Bus or the Sensor/Actuator (SA) Bus to a Bluetooth-enabled computer running the FX-PCT software. Any FX-PC controller on an FC Bus can be commissioned by connecting to any other FX-PC controller, any NS Series Sensor, or any FX-PCX connected to any FX-PC controller on the bus.

The 2.4 GHz Bluetooth connection allows for you to be up to 10 m (33 ft) away while you commission the controller with a laptop computer and the FX-PCT software.

Refer to the *FX-PC Series Programmable Controllers and Related Products Product Bulletin (LIT-12011657)* for product application details.

Features

- Bluetooth wireless communication provides a secure and reliable untethered connection between the laptop and the FX-PC controllers.
- Standard connection jacks on both the NS Series Sensors and FX-PC controllers provide multiple connection points to the system.

- The Bluetooth Commissioning Converter allows online access to controllers while the technician is using the Bluetooth-enabled laptop.
- Standard Bluetooth technology allows you to use a Bluetooth-enabled laptop or any laptop with a commercial off-the-shelf Bluetooth adapter.

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

Figure 1: Bluetooth Commissioning Converter



Accessories

Table 1: Bluetooth Commissioning Converter Accessories


Product Code Number	Description
FX-BTCVT-1	Bluetooth Commissioning Converter
FX-ZFRCBL-0	Wire Harness which allows an FX-PCV1610/1620 to be connected to an SA Bus device (Bluetooth Commissioning Converter, Local Controller Display, or NS Series Sensor) when its SA Bus RJ-12 jack is occupied by an FX-ZFR1811 router.
FX-ATV7003-0	Handheld VAV Box Balancing Tool
FX-BTCVTCBL-700	Cable Replacement Set for the FX-BTCVT-1 or the FX-ATV7003-0; Includes One 5 ft (1.5 m) Retractable Cable

Bluetooth Commissioning Converter Technical Specifications

Table 2: Bluetooth Commissioning Converter Technical Specifications

Product Code	FX-BTCVT-1
Power Requirement	Nominal 15 VDC, supplied by the FX-PC controller SA/FC Bus Port
Power Consumption	1.35 watts maximum
Ambient Conditions	Operating: 0 to 50°C (32 to 122°F) 5 to 95% RH, Noncondensing, 30°C (86°F) Maximum Dew Point Storage: -40 to 85°C (-40 to 185°F), 5 to 95% RH, Noncondensing
Transmission Power	2.5 mW maximum
Transmission Speed	Wireless Communication: 115.2 bits per second (bps) Serial Communication (SA/FC Bus): 9600, 19.2k, 38.4k, or 76.8k bps
Transmission Range (Typical)	Wireless Communication: 10 m (33 ft) Line-of-Sight
Wireless Security	Security Mode 3 - Link Level Enforced Security
Network and Serial Interfaces	Bluetooth® Wireless Technology One RS-485 Bus

Table 2: Bluetooth Commissioning Converter Technical Specifications

Dimensions	116 x 75 x 35 mm (4.6 x 3.0 x 1.4 in.)
Housing	Black ABS Plastic Housing Blue PVC Protective Boot
Weight	0.165 kg (0.365 lb) without hanging components
	United States: UL 916 Energy Management; Plenum-rated per UL1995 UL94-5VB Flammability Rating Transmitter complies with FCC Part 15.247 regulations for low-power unlicensed transmitters (Transmitter FCC Identification: CB2-MS-BTCVT-0) Receiver complies with FCC Part 15.109 regulations for low-power unlicensed receivers (Transmitter FCC Identification: CB2-MS-BTCVT-0)
	Canada: Industry Canada (IC: 279A-MSBTCVT0)
	Europe: CE Mark – Johnson Controls, Inc., declares that this product is in compliance with the essential requirements and other relevant provisions of the R&TTE Directive 1999/05/EC.
	Japan: Telecommunications Certification - 003NY05068 0000



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