



# Wireless Commissioning Converter Catalog Page

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## Wireless Commissioning Converter (BTCVT)

The BTCVT provides a temporary Bluetooth® connection between *Metasys®* system field controllers and the commissioning laptop computer. It allows technicians to commission and service the controllers over a wireless connection.

The BTCVT provides communication from the BACnet® MS/TP Field Controller (FC) Bus or the Sensor/Actuator (SA) Bus to a Bluetooth-enabled computer running the Controller Configuration Tool (CCT) software. Any MS/TP controller on an FC Bus can be commissioned by connecting to any other controller, any network sensor, or any Input/Output Module (IOM) connected to any controller on the bus, provided a FC/SA bus port is available. The BTCVT also provides CCT support for BACnet/IP controllers. However, it does not download firmware or applications to the FAC2513, FAC3613, or the BACnet/IP controllers. Only upload and commissioning of FAC2513, FAC3613, or BACnet/IP controllers is supported through BTCVT.

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

## Figure 1. Wireless Commissioning Converter



## Features

- Bluetooth wireless communication provides a secure and reliable untethered connection between the laptop and the *Metasys* system hardware
- Standard connection jacks on both the *Metasys* system sensors and controllers provide multiple connection points to the system
- Provides the technician with online access to controllers using a 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

## Application Documentation

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

## Ordering Information

Table 1. Wireless Commissioning Converter Ordering Information

Product Code Number	Description
MS-BTCVT-1	Wireless Commissioning Converter with Bluetooth Technology

Product Code Number	Description

## Accessories

**Table 1. Wireless Commissioning Converter Accessories**

Product Code Number	Description
MS-BTCVTCBL-700	Cable Replacement Set for the MS-BTCVT-1 or the NSATV7003-0; Includes One 5 ft (1.5 m) Retractable Cable
MS-ZFRCBL-0	Wire Harness for Use with ZFR1811 Router. Allows ZFR1811 Router to function with FEC16xx Series, VMA16xx Series, FAC26xx Series, and FEC26xx Series Controllers in Conjunction with NS Series Sensors, Wireless Commissioning Converter, or DIS1710 Local Controller Display

## Repair Information

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

## Wireless Commissioning Converter Technical Specifications

**Table 1. Wireless Commissioning Converter**

Product Code	MS-BTCVT-1
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<b>Power Requirement</b>	Nominal 15 VDC, supplied by the field controller SA/FC Bus Port
<b>Power Consumption</b>	1.35 watts maximum
<b>Ambient Conditions</b>	<b>Operating:</b> 0 to 50°C (32 to 122°F), 5 to 95% RH, Noncondensing, 30°C (86°F) Maximum Dew Point  <b>Storage:</b> -40 to 85°C (-40 to 185°F), 5 to 95% RH, Noncondensing
<b>Transmission Power</b>	2.5 mW maximum
<b>Transmission Speed</b>	<b>Wireless Communication:</b> 115.2 bits per second (bps)  <b>Serial Communication (SA/FC Bus):</b> 9600, 19.2k, 38.4k, or 76.8k bps
<b>Transmission Range (Typical)</b>	<b>Wireless Communication:</b> 10 m (33 ft) Line-of-Sight

<b>Wireless Security</b>	Security Mode 3 - Link Level Enforced Security
<b>Network and Serial Interfaces</b>	Bluetooth Wireless Technology  One RS-485 Bus
<b>Dimensions</b>	116 x 75 x 35 mm (4.6 x 3.0 x 1.4 in.)
<b>Housing</b>	Black ABS Plastic Housing  Blue PVC Protective Boot
<b>Weight</b>	0.165 kg (0.365 lb) without hanging components
<b>Compliance</b>	<b>United States:</b> 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 FFC Identification: CB2-MS-BTCVT-0)

The CE mark is a symbol consisting of the letters 'CE' in a bold, sans-serif font, enclosed within a rectangular border.

**Canada:** Industry Canada (IC: 279A-MSBTCVT0)

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

**Japan:** Telecommunications Certification - 003NY05068 0000