



Introduction

The Connected Workflow Wireless MS/TP Converter (CWCVT) is a communications converter that provides a temporary wireless connection between a host device and equipment controllers that support the BACnet® MS/TP protocol. Through the CWCVT, the host device application can discover controllers connected to the MS/TP trunk, download applications, and commission the equipment. The CWCVT supports a Bluetooth wireless connection to Apple™ iOS® and Android™ mobile devices that run the Connected Workflow Application (CWA). The CWCVT also supports a Wi-Fi wireless connection for Windows computers that run Johnson Controls® BAS Tools such as the Controller Configuration Tool (CCT), System Configuration Tool (SCT), or Application, Parameter, Loading Tool (APLT).

Features and benefits

The following is a list of the main features and benefits of the CWCVT.

- Johnson Controls mobile Connected Workflow Application (CWA) connection to BACnet MS/TP controllers through Bluetooth communication.
- Johnson Controls Windows PC application connection to BACnet MS/TP controllers through Wi-Fi communication.
- Color LCD display that shows wireless and MS/TP connection status.
- Powered through an RJ12 adapter. Alternately powered by a standard USB Battery Pack (user supplied through the USB-C port).

Ordering information

The CWCVT is certified for sale in the United States (FCC), Canada (IC), the European Union (CE), and the United Kingdom (UKCA). Contact your Johnson Controls representative to order the CWCVT or any related products.

Table 1: Ordering information

Product code number	Description
TL-CWCVT-0	CWCVT, RJ12 cable, and lanyard

Table 2: Accessories

Product code number	Description
MP-STAFBA-0	Field Bus Adapter - RJ-12 to 4-position Terminal Block Adapter. Used for connecting directly to MS/TP Field Bus.

Related documentation

Table 3: Related documentation

For information about	See document
Using the CWCVT	<i>CWCVT Wireless MS/TP Converter User Guide (LIT-12014120)</i>
Using the CWA	<i>Connected Workflow Applications User Guide (LIT-12014106)</i>
Ordering information of the CWA	<i>Connected Workflow Applications Catalog Page (LIT-1901199)</i>

Technical specifications

Table 4: Technical specifications

Specification	Description
Product code	TL-CWCVT-0x
Power input	RJ12 port: nominal 15 VDC, 1.5 VA, (Alt) USB-C port: 5 VDC, 1.5 VA
Operating temperature conditions	-20°C to 60°C (-4°F to 140°F)
Operating humidity conditions	5% to 95% relative humidity (RH), noncondensing
Dimensions (H x W x D)	Product: 24 mm x 64 mm x 22 mm (.94 in. x 2.52 in. x .87 in.) Shipping: 152.4 mm x 101.6 mm x 101.6 mm (6 in. x 4 in. x 4 in.)
Weight	Product: 85 g (3 oz) Shipping: 453.5 g (1 lb)
Housing	Black ABS plastic housing
Compliance	FCC, IC, CE, and UKCA United States: FCC ID: RNL-JCICVT Canada: IC ID: 279A-JCICVT Product marketing name: JCICVT Hardware version identification number: JCICVT

Table 5: Wi-Fi specifications

Specification	Description
Protocol	802.11 b/g/n
Transmission band	2.4 GHz ISM bands
Transmission power	Maximum 20 dBm
Transmission range	10 m (33 ft) Line of sight
Security	WPA2-PSK, CCMP
Configuration page URL	http://192.168.142.1

Table 6: Bluetooth specifications

Specification	Description
Protocol	V4.2 Bluetooth LE
Transmission band	2.4 GHz ISM
Transmission power	9 dBm
Transmission range	10 m (33 ft) Line of sight
Security	BLE Mode 1, Level 3

Table 7: Serial specifications

Specification	Description
Protocol	BACnet MS/TP Main Node
Driver	RS-485
Baud rate	Auto, 9600, 19.2k, 38.4k, 76.8k. Default: Auto
Device address	0 to 127. Default: 2
End of line	220 ohm, switch selectable
Connector	RJ12 6P6C

Repair information

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

Product Warranty

This product is covered by a limited warranty, details of which can be found at www.johnsoncontrols.com/buildingswarranty.

Software terms

Use of the software that is in (or constitutes) this product, or access to the cloud, or hosted services applicable to this product, if any, is subject to applicable end-user license, open-source software information, and other terms set forth at www.johnsoncontrols.com/techterms. Your use of this product constitutes an agreement to such terms.

Patents

Patents: <https://jciapat.com>

Single point of contact

APAC	EU	UK	NA/SA
JOHNSON CONTROLS C/O CONTROLS PRODUCT MANAGEMENT NO. 32 CHANGJIANG RD NEW DISTRICT WUXI JIANGSU PROVINCE 214028 CHINA	JOHNSON CONTROLS VOLTAWEG 20 6101 XK ECHT THE NETHERLANDS	JOHNSON CONTROLS TYCO PARK GRIMSHAW LANE MANCHESTER M40 2WL UNITED KINGDOM	JOHNSON CONTROLS 5757 N GREEN BAY AVE. GLENDALE, WI 53209 USA

Contact information

Contact your local branch office:
www.johnsoncontrols.com/locations

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