

## Introduction

**Figure 1: CWCVT with lanyard**



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).
- MicroSD card slot available to support the collection and storage of Wireshark transfers

## Ordering information

Each kit contains one CWCVT, one RJ12 cable, and one lanyard. Contact your Johnson Controls representative to order the CWCVT or any related products.

**Table 1: Ordering information**

Product code number	Country
TL-CWCVT-0	United States, Canada, the European Union, and the United Kingdom
TL-CWCVT-0B	China, Australia, New Zealand, Japan, South Korea, Taiwan, and Hong Kong
TL-CWCVT-0C	Indonesia, Malaysia, Thailand, Philippines, Singapore, Egypt, UAE, South Africa, Oman, Qatar, Kuwait, Bahrain, Saudi Arabia, and India

**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 CWa for Technician module	<i>Connected Workflow Applications: CWa for Technician User Guide (LIT-12014106)</i>
Ordering information of CWa for Technician module	<i>Connected Workflow Applications: CWa for Technician Catalog Page (LIT-1901199)</i>

# Technical specifications



Table 4: Technical specifications

Specification	Description
Product code	TL-CWCVT-0 TL-CWCVT-0B TL-CWCVT-0C
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 TL-CWCVT-0	FCC, IC, CE, and UKCA  <b>United States:</b> FCC ID: RNL-JCICVT  <b>Canada:</b> IC ID: 279A-JCICVT Product marketing name: JCICVT Hardware version identification number: JCICVT

Table 4: Technical specifications

Specification	Description
Compliance TL-CWCVT-0B Product marketing name: JCICVT	<b>Australia, New Zealand:</b> RCM
	<b>China:</b> SRRC
	<b>Japan:</b> MIC (Radio)
	<b>South Korea:</b> KC  <small>R-R-540-JCICVT</small>
	<b>Taiwan:</b> NCC  CCAP24LP0950T1
	<b>Hong Kong:</b> OFCA <div><div><b>C</b>ertified for use in Hong Kong 經驗證可在香港使用 Certificate No. 證書號碼 US0012300016</div><div> 通訊事務管理局 COMMUNICATIONS AUTHORITY</div></div>

**Table 4: Technical specifications**

Specification	Description
Compliance TL-CWCVT-0C Product marketing name: JCICVT	<b>South Africa:</b> ICASA
	<b>Indonesia:</b> SDPPI
	<b>Philippines:</b> NTC
	<b>Egypt:</b> NTRA (VoC)
	<b>Malaysia:</b> SIRIM
	<b>Singapore:</b> IMDA  Complies with IMDA standards
	<b>Thailand:</b> NBTC  <div>"This telecommunication equipment conforms to NTC/NBTC technical requirement"</div>
	<b>United Arab Emirates:</b> TDRA  <div><div> United Arab Emirates</div><div></div></div>
	<b>Oman:</b> TRA  <div>OMAN - TRA D172338 TRA/TA-R/18137/24</div>

**Table 4: Technical specifications**

Specification	Description
	<b>India:</b> WPC
	<b>Qatar:</b> CRA
	<b>Saudi Arabia:</b> CITC
	<b>Kuwait:</b> CITRA
	<b>Bahrain:</b> TRA

**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	<a href="http://192.168.142.1">http://192.168.142.1</a>

**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 Manager Node
Driver	RS-485

**Table 7: Serial specifications**

Specification	Description
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](http://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](http://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 Johnson Controls representative:  
[www.johnsoncontrols.com/locations](http://www.johnsoncontrols.com/locations)

Contact Johnson Controls:  
[www.johnsoncontrols.com/contact-us](http://www.johnsoncontrols.com/contact-us)