JOHNSON CONTROLS

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Code No. LIT-1900117

AS-CVTPROx00-1

Zone Bus/N2 Bus Interface Converter
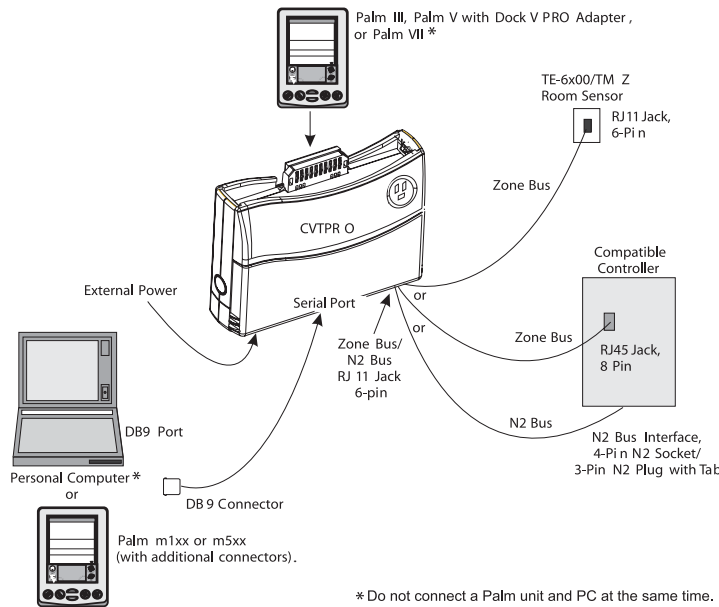

CVTPRO Converter

Description

The CVTPRO Zone Bus/N2 Bus Interface Converter serves as the converter between Palm™ handheld devices or personal computers and controllers attached via the Zone or the N2 Communication Bus. Due to the large number of products compatible with the CVTPRO converter, this package comes with a set of connector cables, power adapter (North American version only) and includes an easy-to-carry zipped case. Palm™ devices require an additional connector and cable purchase, depending on the Palm™ model (see Applications section).

Features

• converts the PC/Palm device RS-232 signals to Zone Bus signals
• powered by controller 24 VAC or +15 VDC when connected to Zone Bus
• converts the PC/Palm device RS-232 signals to N2 interface signals
• powered from two AAA alkaline batteries or a 120 VAC to 3 VDC adapter (North American version only) when connected to N2 Bus
• red LED displays power status
• yellow (receive) LED and green (transmit) LED display N2 communication status

Applications

Overview of CVTPRO Connections
(All cables shown come with the CVTPRO converter package.)

• communicates using HVAC PRO software over the Zone Bus/N2 Bus, when connected to a PC running Windows® 98SE, Windows NT®, or Windows 2000® operating system (AHU1xx, UNT's, and VAV's communicate on Zone Bus using Windows® 98SE only)

• communicates with Variable Air Volume Modular Assembly (VMA) 1400/1200 Series controllers, when connected to a handheld Palm device utilizing Johnson Controls VMA Balancing Tool (VBT) software

• works with Palm™ m1xx, m5xx, III, and VII, and with Palm™ V (with Desk V Pro adapter)

• communicates with these Johnson Controls products: TC-9102s, Air Handling Units Controllers (AHUs), Variable Air Volume Controllers (VAVs), Unitary Controllers (UNTs), VMA12x0s (Balancer Tool only on Zone Bus), VMA14x0s, DX-9100 Controllers, Extension Modules (XTMs), and Network Dialer Modules (NDMs)

Note: **For additional information on CVTPRO Converter compatibility with Palm Devices, Operating Systems, Software, controllers and tools, see *AS-CVTPROx00-1 Zone Bus/N2 Bus Interface Converter Installation Instructions, Part No. 24-9544-0* and *Auxiliary Gear Technical Bulletin, LIT-6363080*.**

To Order

Specify the code number in the following selection chart.

Selection Chart

Code Number	Description
AS-CVTPRO100-1	Zone Bus/N2 Bus Interface Converter with 120 VAC - 3 VDC power adapter (North American Version)
AS-CVTPRO200-1	Zone Bus/N2 Bus Interface Converter without power adapter (European Version)

Repair Parts

Code Number	Description
AS-CVTPRO-701	CVTPRO unit without cables and case
AS-CVTCBL-700	complete set of replacement cables

Specifications

AS-CVTPROx00-1 Zone Bus/N2 Bus Interface Converter		
Power	**Zone Bus**	Controller or Thermostat (+15 VDC or 24 VAC)
	N2 Bus	External Power Adapter (120 V to 3 VDC, 200 mA Class 2 Transformer included with North American version only) or Two AAA Alkaline Batteries
Ambient Operating	**Temperature**	0 to 50°C (32 to 122°F)
	Conditions	20-80% RH (Relative Humidity) 30°C (86°F) maximum dew point
Ambient Storage	**Temperature**	-40 to +60°C (-40 to 140°F)
	Conditions	5-95% RH 30°C (86°F) maximum dew point
Internal Battery		Two AAA Alkaline Batteries
Serial Interfaces		Serial Port (RS-232) for PC Zone Bus/N2 Bus RJ11 Jack (6-Pin)
Dimensions (H x W x D)		79.38 x 60.33 x 22.23 mm (3.125 x 2.375 x 0.875 in)
Agency Listings		CE Mark FCC Part 15m Subpart B, Class A
Agency Compliance		CE Mark: EN50081-2 (Electromagnetic Compatibility, EN55011, Class A) EN50082-2 (Electromagnetic Compatibility, EN61000-3-2 and EN61000-3-3)

The performance specifications are nominal and conform to acceptable industry standards. For applications at conditions beyond these specifications, consult the local Johnson Controls office. Neither Johnson Controls, Inc. nor its subsidiaries or affiliates shall be liable for damages resulting from misapplication or misuse of its products.

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