

AS-CVTPRO300-1 and AS-CVTPRO400-1

## Zone Bus/N2 Bus Interface Converter

### Description

The CVTPRO Zone Bus/N2 Bus Interface Converter serves as the converter between 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.

This device replaces the CVTPRO100 and no longer supports direct interface to Palm III and Palm V devices.

### Features

- converts the computer device RS-232 signals to Zone Bus signals
- powered by controller 24 VAC or +15 VDC when connected to Zone Bus
- converts the computer device RS-232 signals to N2 interface signals
- USB to RS-232 adapters included
- powered by a 120 VAC to 3 VDC adapter (North American version only) when connected to N2 Bus
- red Light-Emitting Diode (LED) displays power status
- yellow (receive) LED and green (transmit) LED display N2 communication status

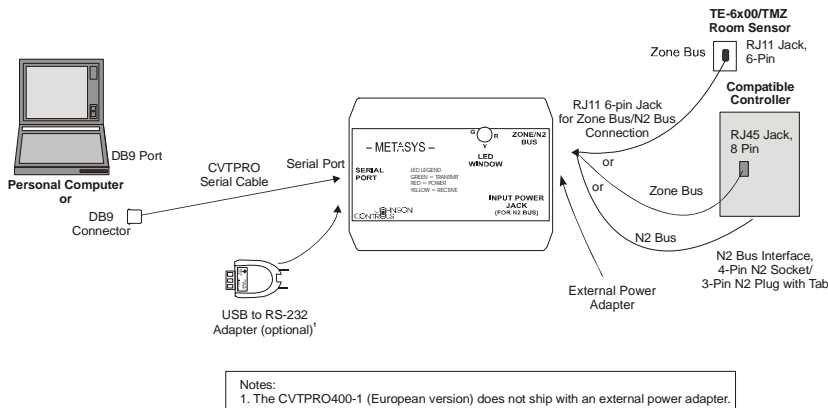
**CVTPRO Converter**

### Applications

The CVTPRO Zone Bus/N2 Bus Interface Converter communicates:

- using HVAC PRO software over the Zone Bus/N2 Bus, when connected to a computer running Windows NT® or Windows® 2000 operating system
- with Variable Air Volume Modular Assembly (VMA) 1400 Series controllers, when connected to a laptop computer using Johnson Controls® Palm OS® simulator software
- with these Johnson Controls products: TC-9102x, Air Handling Units Controllers (AHUs), Variable Air Volume Controllers (VAVs), Unitary Controllers (UNTs), VMA14x0s, DX-9100 Controllers, Extension Modules (XTMs), and Network Dialer Modules (NDMs)

**Note:** For additional information on CVTPRO Converter compatibility with computers, operating systems, software, controllers and tools, refer to the *AS-CVTPRO300-1 and AS-CVTPRO400-1 Zone Bus/N2 Bus Interface Converters Installation Instructions (Part No. 24-10158-0) and Auxiliary Gear Technical Bulletin (LIT-6363080)*.



### Overview of CVTPRO Connections

(All cables shown come with the CVTPRO Converter package.)

## Zone Bus/N2 Bus Interface Converter (Continued)

### Selection Chart

Code Number	Description
AS-CVTPRO300-1	Zone Bus/N2 Bus Interface Converter with 120 VAC - 3 VDC power adapter (North American Version) and USB to RS-232 adapter
AS-CVTPRO400-1	Zone Bus/N2 Bus Interface Converter without power adapter (European Version) and USB to RS-232 adapter
AS-CVTPRO-703 <sup>1</sup>	CVTPRO unit without cables and case
AS-CVTCBL-700 <sup>1</sup>	Complete set of replacement cables

1. Replacement part

### Technical Specifications

AS-CVTPRO300-1 and AS-CVTPRO400-1 Zone Bus/N2 Bus Interface Converter		
<b>Power</b>	<b>Zone Bus</b>	Controller or Thermostat (+15 VDC or 24 VAC)
	<b>N2 Bus</b>	External Power Adapter (120 V to 3 VDC, 200 mA Class 2 Transformer included with North American version only)
<b>Ambient Operating</b>	<b>Temperature</b>	0 to 50°C (32 to 122°F)
	<b>Conditions</b>	20-80% RH (Relative Humidity) 30°C (86°F) maximum dew point
<b>Ambient Storage</b>	<b>Temperature</b>	-40 to 60°C (-40 to 140°F)
	<b>Conditions</b>	5-95% RH 30°C (86°F) maximum dew point
<b>Serial Interfaces</b>		Serial Port (RS-232) for PC Zone Bus/N2 Bus RJ11 Jack (6-Pin)
<b>Dimensions (H x W x D)</b>		131.8 mm x 96.8 mm x 38.9 mm (5.19 in. x 3.81 in. x 1.53 in.)
<b>Agency Listings</b>		CE Mark: FCC Part 15m Subpart B, Class A
<b>Compliance</b>		CE Mark: EN50081-2 (Electromagnetic Compatibility, EN55011, Class A) EN50082-2 (Electromagnetic Compatibility, EN61000-3-2 and EN61000-3-3)