

MODELS:  
CONV 232

TYPE: CONV 232  
RS485-RS232 CONVERTER

## Overview

The *Conv 232* is a bi-directional protocol converter between RS232 and RS485. It is intended to act as an intermediate translator between a computer's serial port and a Genesis network. The *Conv 232* is compatible with Windows® Vista 32-bit, XP, NT and 2000.

## Features

- Fully Isolated RS485 Communications.
- Compatible with all Innotech RS485 devices
- Provides remote *dial in* access through the use of an attached modem.
- Operates on 9VAC or 9VDC.
- All wire connections by removable terminals.
- LED indication of network traffic.

## Applications

The *Conv 232* connects to the RS232 serial port of a computer or modem, and converts its signals to RS485 format. In this way it can be used to link the PC directly to a Genesis RS485 network. Isolated RS485 circuitry prevents voltage irregularities on the comms cabling from damaging the computer, and reduces the likelihood of communication errors.

- Mobile Service tool
- Permanently situated protocol translator

## Specifications

### Power Supply

- 9VAC±10% @ 50/60Hz  
Power Consumption: 1.2VA
- 9VDC±10%  
Power Consumption: 700mW

The operating voltage must meet the requirements of Safe Extra Low Voltage (SELV) to EN60730. The transformer used must be a Class 2 safety transformer in compliance with EN60742 and be designed for 100% duty. It must also be sized and fused in compliance with local safety regulations.

### COMMS Connection

SHLD 1 = Shield from incoming Comms Cable.  
+ = RS 485 (+) signal.  
- = RS 485 (-) signal.  
SHLD 2 = Shield from outgoing Comms Cable.



## Functionality

An external supply will keep the device on permanently.

## Enclosure/Mounting

The *Conv 232* is housed in a rectangular enclosure, and is moulded from flame retardant plastics recognised by UL as UL 94-V0. The case design allows easy access to Communications connections and power supply.

Colour: Grey

Dimensions: 50(w) x 99(h) x 24.5(d)

## Temperature Ratings

- Storage 0 to 50°C non-condensing.
- Operating 0 to 40°C non-condensing.

## Approvals

The *Conv 232* conforms to:

- Electromagnetic emission and immunity requirements for information technology equipment, for CE Marking and C-Tick Labelling
- Title 47 CFR, Part 15 Class A for FCC Marking
- UL listed to UL916, File Number E242628

## Wiring

- **DO NOT** connect 240V AC to any terminals.
- Ensure polarity of the power supply is correct. Centre pin is (+). Incorrect polarity may destroy the product and other connected devices.
- The Comms cable must be organised as a bus topology (Daisy Chained). No "stubs" are allowed.
- The cable used for RS485 Comms must be shielded single twisted pair with 120 ohms characteristic impedance and not exceed 45pF per metre capacitance between conductors.

For more information please refer to the Innotech Cabling Manual DS99.04.

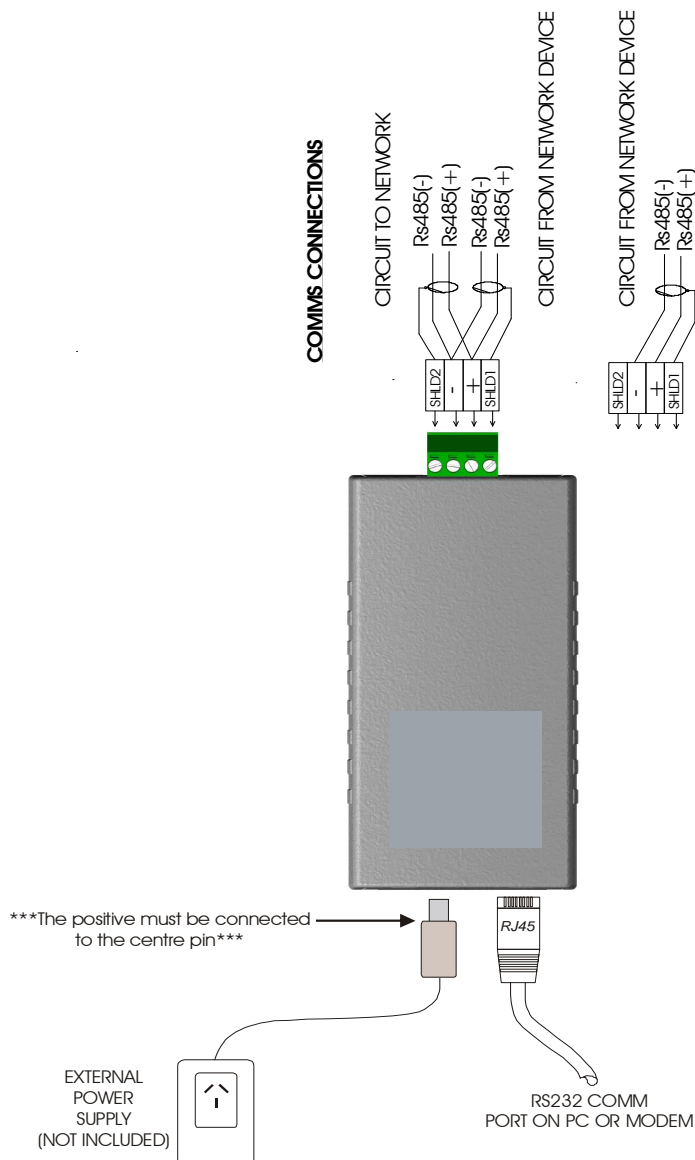
## FCC Class A Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

**Note** – This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



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