

Models:

GENII Converter

RS232 to Isolated RS485 Converter

GENII Converter**RS232 to Isolated RS485 Converter****Overview**

The Innotech GENII CONVERTER, RS232 to Isolated RS485 Converter, provides an interface between a PC's RS232 serial port and an RS485 serial network. Switching the RS485 transceiver between the transmit and receive modes is accomplished via the "RTS" control signal line from the PC.

The GENII CONVERTER is designed to be located adjacent to the PC and to be powered from a 9 Volt AC or DC plug pack.

Features

- PC interface to GENII "Net Comms" network.
- Isolated RS485 connection to prevent "earth loop" problems.
- Switching between transmit and receive on the RS485 transceiver automatically controlled by PC software.
- LED indication of power on.
- LED indication of communications status.

Application Notes

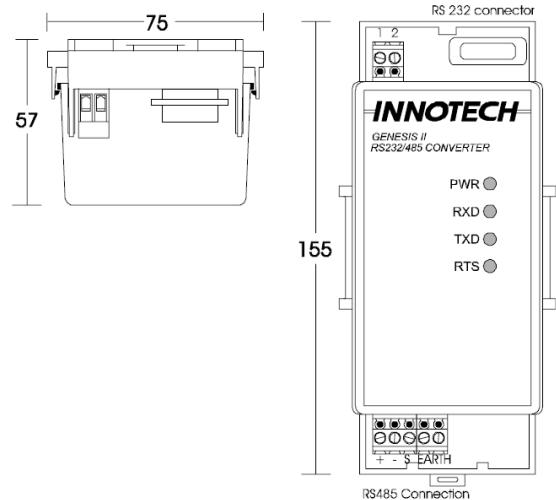
More than one GENII CONVERTER can be connected to the "Net Comms" network but, care must be exercised to ensure that only one GENII CONVERTER is in use (transmitting) at any time. If more than one GENII CONVERTER is in use, the reply from any device on the network could be corrupted.

The GENII CONVERTER can be used to "listen" to the data on the "Global Points" network when using the Gen2GPScan program.

Enclosure

The GENII CONVERTER is housed in a rectangular case made from flame resistant Astrene M650 IR plastic in accordance with IEC695-2-1 (HD444-2-1) as of EN6335- 1, A2 and IEC707 (AS/NZS2420).

Colour: Grey
Mounting: DIN Rail

**Applications**

The RS232 to Isolated RS485 Converter provides an isolated interface between the RS232 serial port on a PC and the RS485 "Net Comms" or "Global Points" networks of an INNOTECH GENESIS controller installation.

Approvals

The GENII CONVERTER has been designed to conform to the requirements per European Consortium Standards EN55011:1991 (CISPR11) Class B, Group I and EN50082-1:1992 (IEC801-2, IEC801-3 and IEC801-4) for CE-Marking as well as the requirements for Australian/ New Zealand Standard AS/NZS2064:1997 for C-Tick Labelling.

Specifications

Power Supply

Voltage: 9V AC or 9V DC @ 100mA from Double Insulated plugpack.

Inputs/Outputs

RS232 connection to a PC via a DB9 socket

Isolated RS485 connection via a 3 way terminal block

Terminal Identification

RS485 Terminals

From left to right.

+	Positive of RS485 comms
-	Negative of RS485 comms
SCN	Screen of RS485 comms cable

Earthing Terminals

EARTH Connection for electrical earth protection on RS485 comms cable.

Led Identification

Red	Power
Green	RX Receive
Red	TX Transmit
Yellow	Receive Enable Indicates that the RS485 is in receive mode.

Temperature Ratings

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

Installation

- Mount the GENII CONVERTER in a dry and reasonably clean location free of excessive vibration.
- Wire in accordance with INNOTECH connection diagrams and local bylaws or refer to your local distributor.

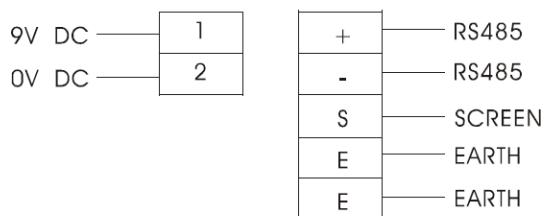
Wiring

- DO NOT connect ANY voltage source to any terminals other than the 9V plug pack to terminals 1 and 2.
- Check that the AC and DC voltages to EARTH on the RS485 cable are less than 20 volts before connecting the RS485 cable to the GENII CONVERTER.
- Connect the EARTH terminal(s) to the electrical earth of the installation.

Comms Installation

For a detailed description of the installation and connection of RS485 comms cabling, refer to the "General Overview of Comms Networks" and "Genesis System Comms Wiring Recommendations".

GENII CONVERTER



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