



ASI Controls

ASI Converter/Repeater

ASI C/R Features

- RS-232/RS-485 Converter
- RS-485 Repeater
- Autobaud up to 38,400 baud
- Rx,Tx LED Indication
- Optical Isolation of RS-485
- CE Rated
- 9 Vdc Non-polarized

The ASI Converter/Repeater (C/R) is a System Interface and Network Controller that provides RS-232 communication access to a network of ASI controllers from a system host computer or other compatible RS-232 device. The ASI C/R provides the electrical interface between the RS-232 full duplex communication, and the RS-485, 1/2 duplex balanced line communication bus. The ASI C/R is a simple plug and play device. No software or hardware configuration is required.

A standard RS-232 cable makes the RS-232 connection with a DB-9 male fitting connected to the DB-9 female connection on the ASI C/R. The RS-485 connections are made using a single twisted pair of wires from the screw terminals on the ASI C/R to the screw terminals on the controller.

The ASI Converter/Repeater controls the RS-485 transmit and receive lines independent of software. There are no switches or jumpers to set. It automatically adjusts to accept baud rates up to 38,400 baud. It is tolerant of any communication mode including number of start/stop bits. It communicates using extended ASI communication protocol messages at 1200 to 38,400 baud.

The Converter/Repeater eliminates ground loops that destroy computer ports and reduce serial communication reliability. It also provides 1200-volt isolation between a computer and equipment, using optical and transformer technology. All communication lines are transient protected.

The Converter/Repeater comes with a 9 Vdc power source with wall-plug adapter. It includes a snap-on EMI limiting Ferrite that must be attached to the DC power leads to meet CE requirements.

Transmit and Receive LEDs for both Repeater and Field ports confirm that data transmission and reception are occurring which aids system setup and troubleshooting.

The ASI Converter /Repeater can be used as a network repeater allowing more than 32 controllers and to extend the communication bus beyond 4,000 feet. It directly transfers messages from the RS-485 or RS-232 input to the RS-485 output (field).

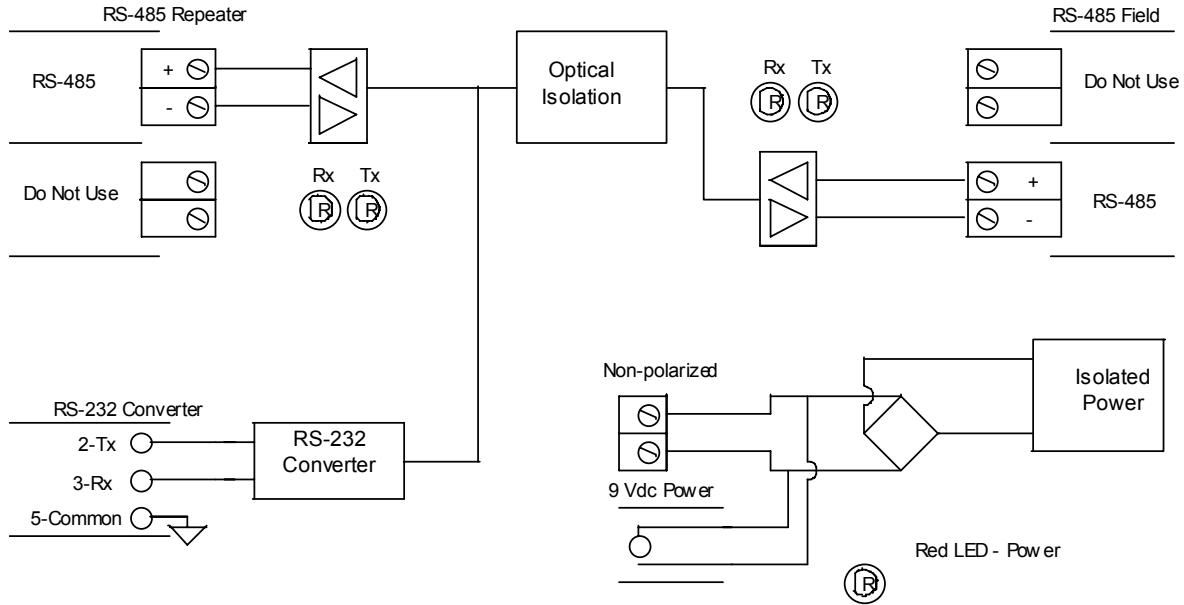
The ASI C/R replaces earlier SINC/1-1000 or LINC/1-1100 products. The attractive stainless steel enclosure with mounting holes makes it a perfect package for panel mounting or setting on a desktop.





ASI Controls

ASI Converter/Repeater



Specifications

Power Supply

Supply Voltage: 9 Vdc @170 mA nominal

RS-232 Converter

Function : Converter
 Format: RS-485, 1/2 duplex,
 or RS-232, full duplex to RS-485
 Protocol: ASI Open Protocol
 Baud Rate: Automatic from 1200 to 38,400 baud

RS-485 Repeater

Function : Input and Output
 Format: RS-485, 1/2 duplex, .
 Protocol: ASI Open Protocol
 Baud Rate: Automatic from 1200 to 38,400 baud
 Drive: Up to 32 RS-485 devices.
 Range: 4,000 ft (1220 m)
 @38.4 kbaud with 24 AWG twisted pair.

Indication

Power: Red LED
 Repeater/Field: 2-Rx Red
 and 2 Tx Red LED

Compliance

FCC Class A.
 CE, requires snap-on EMI Limiting Ferrite that
 MUST be attached to dc power leads of
 ASI supplied power supply.

Terminations

Power: center pin jack Non-polarized
 RS-232: 1, DE-9 female
 RS-485: 4 position screw terminals

Physical

Dimensions: Length 5.00" (127 mm) x
 Width 3.00" (76 mm) x
 Height 1.00" (25 mm)
 Mounting: Mounting Screws
 4.50" on center.(112 mm)
 Horizontal or Flat
 Weight: 0.7 lb (0.31 kg)

How to Order:	Order Number
ASI Converter/Repeater 120 V (CE)	ASI C/R
ASI Converter/Repeater 220 V (CE)	ASI C/R-PS220CE