UIC-12R

Industrial RS-232 to RS-485 converters with 2.5 KV isolation

Features

- *RS-232 to 2-wire RS-485 conversion*
- *2.5 KV isolation protection*
- *Wall mounting*
- *Plug-in terminal block for easy RS-485 wiring*
- *LED indicators for Tx, Rx*
- *-40 to 85°C operating temperature*

Introduction

The UIC-12R is RS-232 to RS-485 converter that converts the RS-232 Serial Port Signals to RS-485 signals for long distance driving. The converter is fully integrated signal and power with electromagnetic isolation for good reliability. The UIC-12R is ideal solution for converting RS-232 signals to RS-485 in critical industrial environments.

Specifications

RS-232 Side

Connector	DB9 female
Signals	TxD, RxD, GND

RS-485 Side

Connector	Terminal Block
RS-485-2w	D+, D-, GND
RS-485 Data Direction Control	Auto Direction Control

Serial Communication

Baudrate	50 bps to 250 Kbps
ESD Protection	±15 kV
Electromagnetic Isolation	2.5 KVrms for 1 minute, Fully Integrated Signal and Power Isolated
Pull High Resistance	1K ohm
Pull Low Resistance	150K ohm

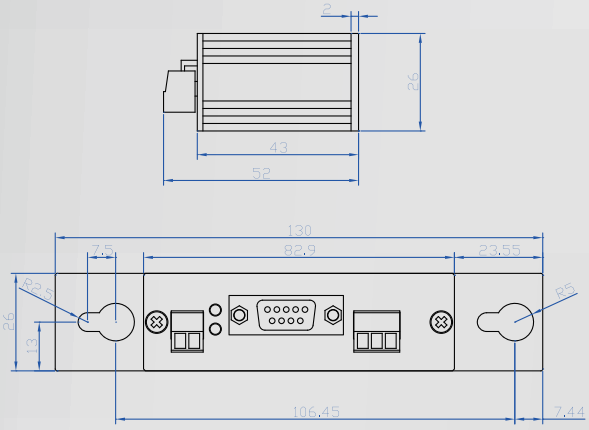
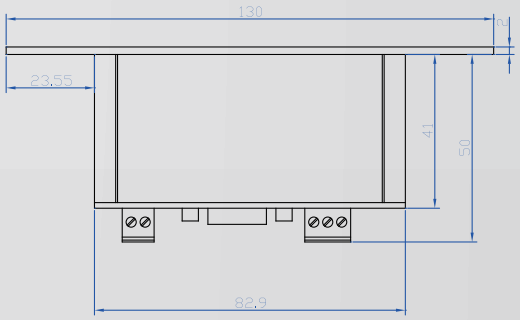
Physical Characteristics

Housing	Aluminum
Dimensions	26 x 130 x 43 (mm) 1.03 x 5.12 x 1.70 (in)
Weight	105 ± 5 g

Environmental Limits

Operating Temp.	-40 to 85°C (-40 to 185°F)
Storage Temp.	-40 to 85°C (-40 to 185°F)
Operating Humidity	5 to 95% (non-condensing)

Power Requirements

Input Voltage	5 to 24 VDC
Power Consumption	50 mA
Voltage Reversal Protection	Protects against V+/V- reversal
Over Current Protection	PTC fuse

Dimensions