RS2RS

RS2RS, Converter RS-232/RS-485 converter and RS-485/RS-485 amplifier,

Code: D80310.

Description

The **RS2RS** converter lets you connect units with RS-232 communications to a RS-485 network. It also works as a repeater or amplifier of RS-485 networks. The converter is designed to be used in industrial environments, thanks to its galvanic insulation.It automatically adapts to all half-duplex communications protocols without the need to modify the software. It works as a communications transducer between RS-232/RS-485 data buses or as an octocoupled RS-485/RS-485 amplifier. The **RS2RS** automatically switches between transmission (Tx) and reception (Rx) when it detects activity in the Tx transmission line, avoiding the need for software control.

Using the **RS2RS** as an amplifier extends the length of an installation's RS-485 bus, which generally does not exceed 1,200 metres. It can be used in installations where there are communication issues due to interference or cabling distances. The key features of the **RS2RS** converter are:

○ RS-232 / RS-485 bus transducer.
○ RS-485 / RS-485 amplifier.
○ Auto-detection of word speed and length, from 300 to 115,000 bauds.
○ Galvanic insulation, up to 3 kV.
○ 120 ... 230 Vac power supply
○ Power, TX and RX LED
○ Assembly. **DIN 46277** (**EN-50022**), 3 **DIN 43880** modules

Application

○ For any installation that has units with RS-485 communications that need to communicate over an RS-232 connection.
○ Amplification of the RS-485 bus where the required distance exceeds 1200 metres.
○ Amplification of RS-485 signals in installations where there are communications problems.

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RS-232 / RS-485 converter and amplifier

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Specifications

AC power supply

Consumption	0,7 ... 2,3 VA
Frequency	50 / 60
Nominal voltage	120 ... 230 V ~ ± 10 %

Mechanical characteristics

Size (mm) width x height x depth	70 x 106 x 58 (mm)
Envelope	Noryl V0 1550
Weight (kg)	0,182

Environmental characteristics

Protection class	IP 20
Relative humidity (without condensation)	25 ... 85 %
Storage temperature	-10 ... +60 ºC
Working temperature	0 ... +50 °C

Standards

Electrical safety, Maximum height (m)	2000
Electrical safety, Installation category	CAT III 300 V (IEC 61010)
Standards	UNE-EN 61000-6-2, UNE-EN 61000-6-4

Electrical safety

Insulation	Double-insulated electric shock protection class II (IEC 61010-1)

User interface

LED	3 LED (Indication transmission : Tx and Rx - Power supply)

Serial communication

Technology / Type	RS-232 / RS-485

RS2RS
RS-485 / RS-232 Converter

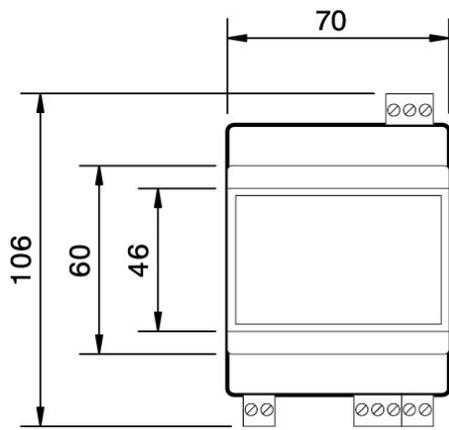| CODE	TYPE	Description
RS		
D80310.	RS2RS	RS-232/485 Intelligent converter and amplifier (RTS control) for PC

Circutor

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Dimensions

Connections