HDL® KNX® Datasheet

KNX<->RS232/RS485 Converter
M/KRS232/485.1
Hardware Version: A

Parameters

Electrical Parameters	
Working voltage	21~30V DC
Working current	10mA/30V DC
Communication	KNX/EIB, RS232, RS485
Data bit	7/8
Stop bit	1/2
Cable diameter of KNX terminal	0.6-0.8mm
Environmental Conditions	
Working temperature	-5℃~45℃
Working relative Humidity	Up to 90%
Storage temperature	-20℃~+60℃
Storage relative humidity	Up to 93%
Approved	
CE, RoHS	
Specifications	
Dimensions	H90mm x W72mm x D 66mm
Net weight	110.5g
Housing Material	Flame-retarded nylon
Installation	35mm DIN rail installation
Protection rating	IP20

Important Notes

- Programming - This device is compliant with the KNX standard and can only be programmed by ETS software.
- Mounting position - DB Box.
- Make sure the KNX cable type is correct and there is no short circuit.
- KNX Bus voltage - 21~30V DC.
- Check connection - Re-tighten all connections after installation.
- Make sure the RS485 cable is in correct connection to the module connector DC24V, 485+, 485- , COM1.
- Make sure the RS232 cable is in correct connection to the module connector RX,TX, COM2.

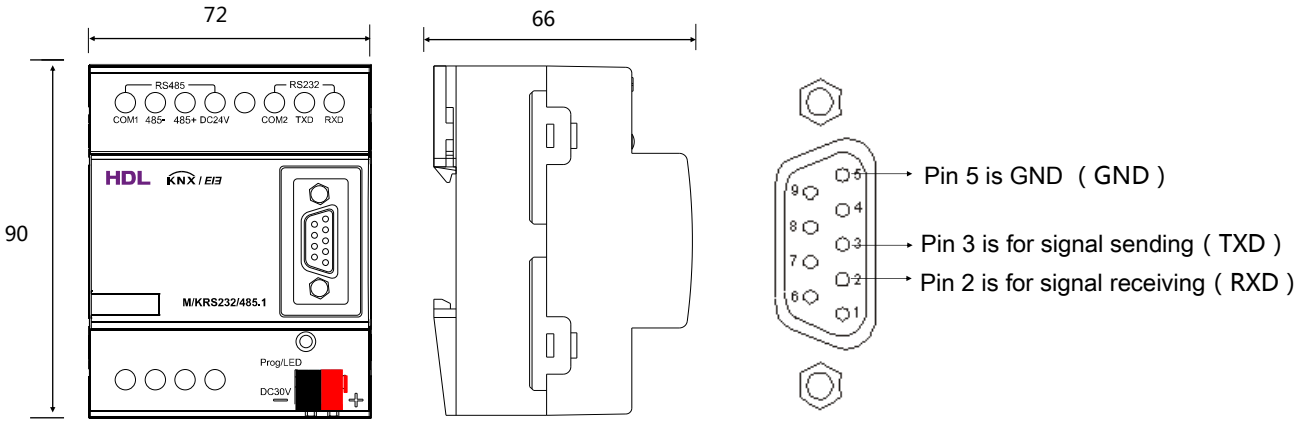
Overview

M/KRS232/485.1 Converter is used for bidirectional data exchange between KNX and RS232, KNX and RS485.

Functions

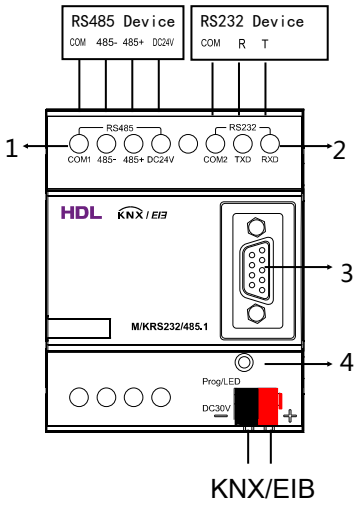
- 3 working modes: String mode, Hexadecimal mode, Data mode
- RS232 interface work in all baud rates: 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200bps. Users can choose baud rates according to their requirements.
- Gateway between KNX and RS232 or RS485 and KNX, only one communication method can be selected from RS232 and RS485 at the same time.
- Gateway between KNX and RS232: RS232 (string mode or hexadecimal mode, data mode) <-> KNX/EIB.
- Gateway between KNX and RS485: RS485 (string mode or hexadecimal mode, data mode) <-> KNX/EIB.
- Supports up to 200 control targets
- Up to 50 characters for each target

Layout and Wirings (Unit: mm)



Front view

Side view



1- RS485

2- RS232

3- RS232 Port: 9-pin D-shaped socket, Pin 2 is for signal receiving, Pin 3 is for signal sending, Pin 5 is GND.
(Pin 2 and Pin 3 are cross-linked, Pin 5 is connected directly)
As the figure shows, 2,3 are two different connection methods of RS232, and one of them can be selected for connection.

4- Programming button & programming LED.

Safety Precautions

- Tightening torque is less than 0.4N.m.
- Installation Position: Distribution Box (DB).
- Do not make wrong connection on KNX interface, it will damage the KNX interface of this module.
- Do not get AC220V voltage into KNX/EIB Bus wire , it will damage devices in system.
- Ensure a good ventilation circumstances .
- Keep away from rain/ water, corrosive gases, otherwise the device may be damaged.

Package Contents

- KNX<->RS232/RS485 Converter*1 / 1.2m 9-bit parallel cable*1 / Label*5 / Datasheet*1