

# USB/422-485 ISO

Industrial data converter

## Highlights

- Converts RS-422/485 to USB interface
- Complies to USB 1.1 and USB 2.0 standards
- Automatic adjustment of data rate and format
- Galvanic isolation up to 1.5kV DC
- Plug & Play installation
- Power supplied from USB port – no additional supply is required
- Compatible with Windows and Linux Operating Systems



## Description

USB/422-485 ISO is a communication converter intended for connecting RS-422/485 devices to PC's USB port.

Data rate and format adjustment is performed according to requirements of RS-422/485 device. Module is power supplied from USB port and galvanic isolated from RS-422/485 devices (network). It is compatible with most operating systems enabling two access modes: as virtual serial COM port (VCP drivers up to 115 kbps), and as direct USB port (D2XX drivers up to 1 Mb/s).

## Application

USB/422-485 ISO is completely adjusted for applications in industrial communications and process automation, alarm systems and telemetry.

It is used for:

- Interconnecting distributed I/O modules and PLCs to PC;
- Galvanic isolation of PC from RS-422/485 networks;
- Connecting PC without COM ports to RS-422/485 communication bus;
- Increasing number of COM ports on PC;
- Field data readout using laptop.

## Technical specification

<b>Communication connectors</b>	USB (type B); RS-422/485 (pluggable screw clamp, 6 wires)
<b>Compliance</b>	USB 1.1 and USB 2.0 standard
<b>Data rate and format</b>	Automatically determined by RS-422/485 device
<b>Maximum distance</b>	1.2km @ 9600 b/s
<b>Supported operating systems</b>	Windows and Linux
<b>Cable in set</b>	USB type A to USB tip B (1.5 m)
<b>LED indicators</b>	PWR, TxD, RxD
<b>Galvanic isolation</b>	1.5kV DC
<b>Power supply</b>	From USB port – no additional mains adapter is required
<b>Operating temperature</b>	-25 to 70°C
<b>Dimensions</b>	90 x 43 x 20 mm

## DECODE d.o.o.

Bulevar Nikole Tesle 30A

11080 Belgrade, Serbia

Tel: +381 11 311 0027

E-mail: [office@decode.rs](mailto:office@decode.rs)

[www.decode.rs](http://www.decode.rs)

## Legal notice

Reproduction, transfer, distribution or storage of part or all of the contents in this document in any form without the prior written permission is prohibited. All rights reserved. All trademarks mentioned herein belong to their respective owners.

**Copyright © 2018 Decode**

## Disclaimer

Decode has used reasonable care in preparing the information included in this document, but does not warrant that such information is error free.

Decode, its associates, representatives, employees, and others acting on its behalf disclaim any and all liability for errors, inaccuracies, or incompleteness contained in any datasheet or in any other disclosure relating to any product.

In the interest of continuous product development, the Decode reserves the right to make improvements to this manual and the products described in it at any time and without prior notification or obligation.

The use of the product is at sole discretion of the user. Decode cannot be held responsible for any damages arising due to use of this product and makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product.

Note: The specifications in this document are valid as of the listed versions of software and/or hardware. Revised versions of this document, as well as software and driver updates are available in the download area of the Decode web site.