



# USB-RS485-STICK

Hardware-Description

2010 Oktober

# INDEX

<b><u>1. Introduction</u></b>	<b>4</b>
<b><u>1.1. General remarks</u></b>	<b>4</b>
<b><u>1.2. Customer satisfaction</u></b>	<b>4</b>
<b><u>1.3. Customer response</u></b>	<b>4</b>
<b><u>2. Hardware description</u></b>	<b>6</b>
<b><u>2.1. Technical data</u></b>	<b>7</b>
<b><u>2.2. Pin assignment connector</u></b>	<b>8</b>
<b><u>2.2.1. 9pol. D-SUB male</u></b>	<b>8</b>
<b><u>2.3. LED's</u></b>	<b>9</b>
<b><u>3. Software</u></b>	<b>11</b>
<b><u>3.1. "VCP driver (Virtual COM-Port)" installation</u></b>	<b>11</b>
<b><u>4. Appendix</u></b>	<b>14</b>
<b><u>4.1. Product information</u></b>	<b>14</b>
<b><u>4.2. Revisions</u></b>	<b>15</b>
<b><u>4.3. Copyrights and trademarks</u></b>	<b>16</b>



# Introduction



# 1. Introduction

## 1.1. General remarks

First of all, we would like to congratulate you to the purchase of a high quality DEDITEC product.

Our products are being developed by our engineers according to quality requirements of high standard. Already during design and development we take care that our products have -besides quality- a long availability and an optimal flexibility.

### **Modular design**

The modular design of our products reduces the time and the cost of development. Therefore we can offer you high quality products at a competitive price.

### **Availability**

Because of the modular design of our products, we have to redesign only a module instead of the whole product, in case a specific component is no longer available.

## 1.2. Customer satisfaction

Our philosophy: a content customer will come again. Therefore customer satisfaction is in first place for us.

If by any chance, you are not content with the performance of our product, please contact us by phone or mail immediately.

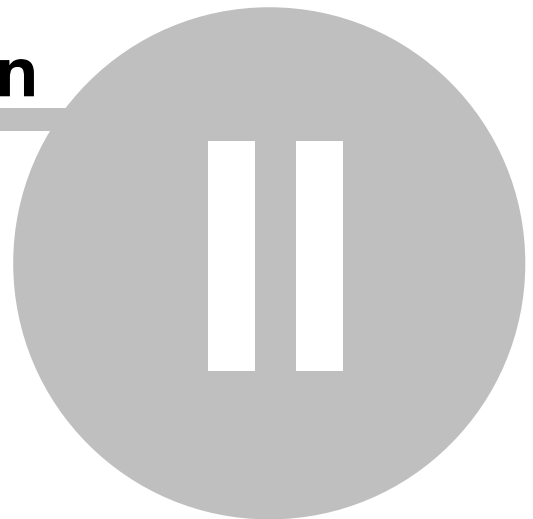
We take care of the problem.

## 1.3. Customer response

Our best products are co-developments together with our customers. Therefore we are thankful for comments and suggestions.

# Hardware description

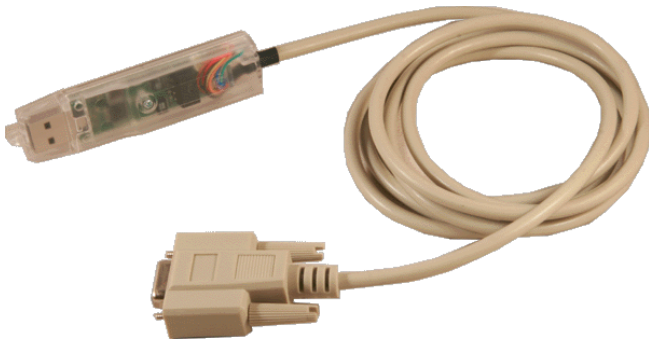
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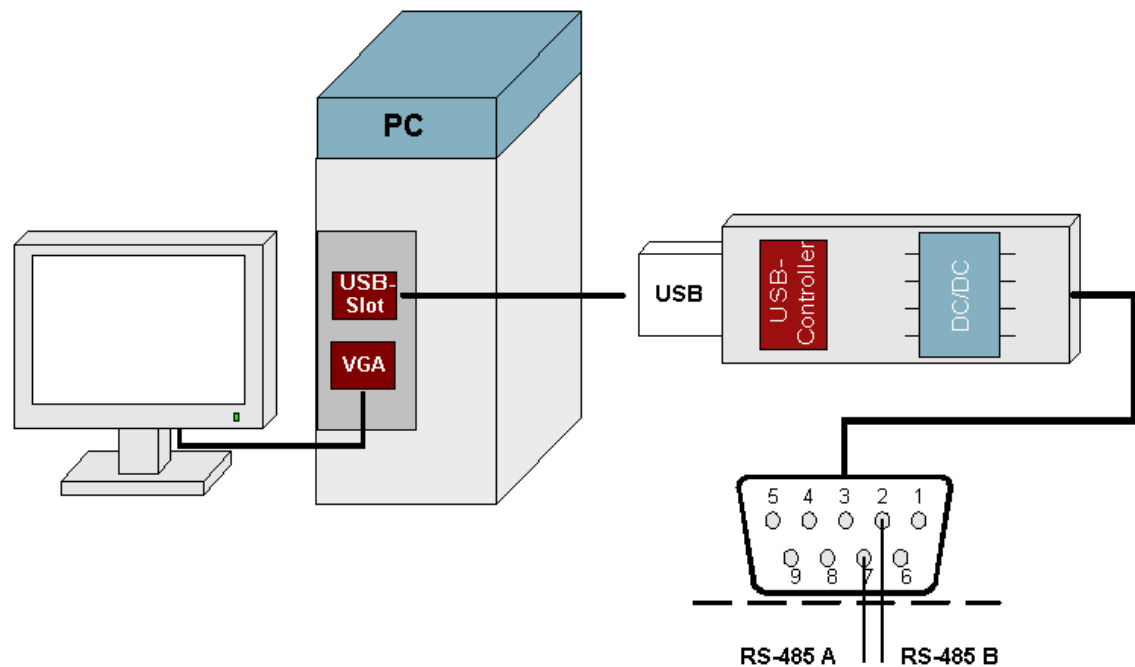
## 2. Hardware description

With this handy stick you are able to connect your PC/Notebook to the world of RS-485 devices. The galvanical isolation electrically separates the PC from the RS-485 interface. Disruptive impulses from the RS-485 side, that destroy such converters, are now things of the past.

With the help of galvanical isolation it is possible to connect your PC to industrial facilities that operate on an different electrical level than the used PC or notebook.



## 2.1. Technical data

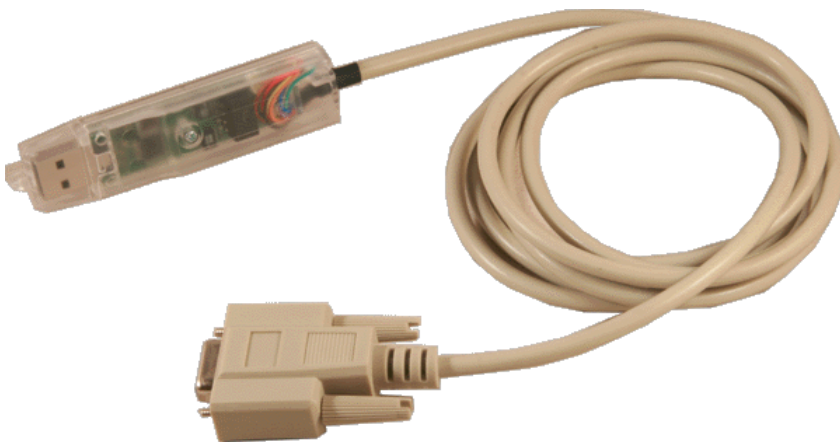


- +5V power supply
- USB to RS-485 converter
- galvanically isolated
- 50 Baud ..115200 Baud (per Software adjustable)
- Windows VCP (Virtual COM Port)
- Linux drivers included
- Dimensions: 84,5 x 21 x 12,5/9,5 mm (without cable)

## 2.2. Pin assignment connector

### 2.2.1. 9pol. D-SUB male

The connection to the stick on the RS-485 side is made by a 9pol. D-Sub male.



### RS-485 pin assignment

Pin	
2	RS-485 B
7	RS-485 A

## 2.3. LED's

Two LED signalize send and receive events.

1\*TX            (transmit)

1\*RX            (receive)

# Software

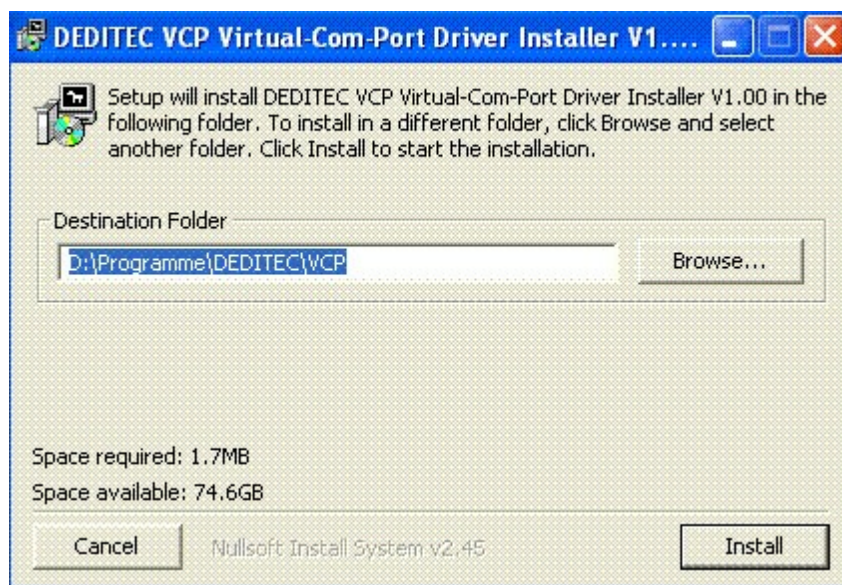


## 3. Software

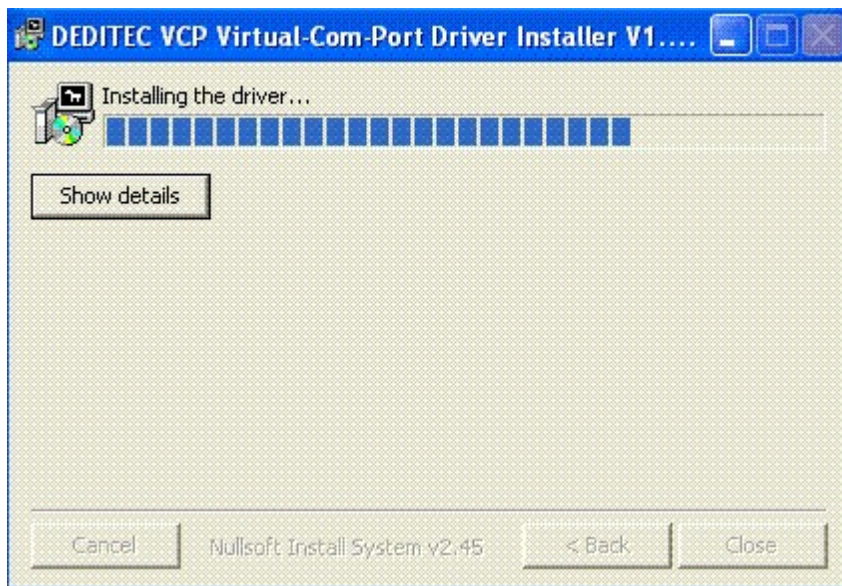
### 3.1. "VCP driver (Virtual COM-Port)" installation



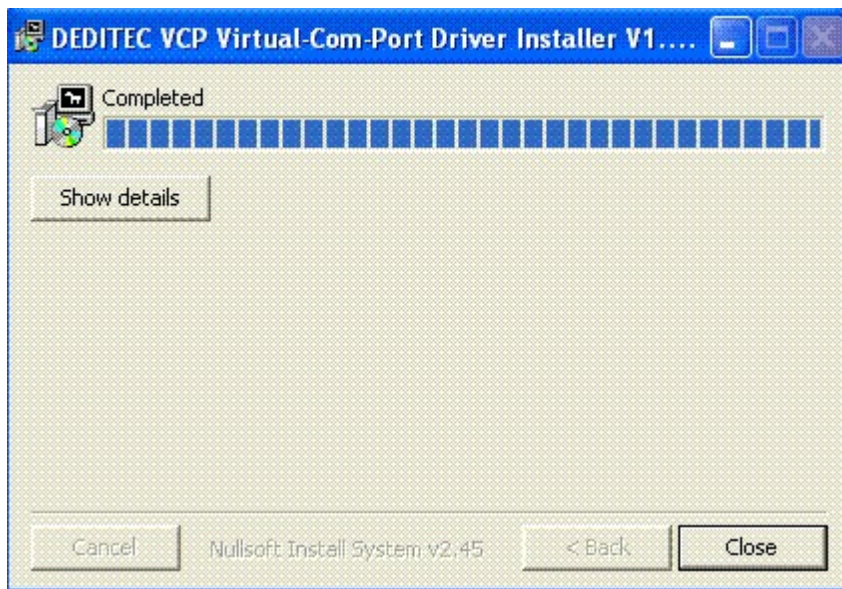
Insert the DEDITEC driver CD in your drive and start **"vcp\_driver\_install.exe"**. The "VCP driver (Virtual COM-Port)" software is also available at <http://www.deditec.de/en/entwicklungstools/download.html>.



Press "Install".



The driver will be installed.



The **“VCP Driver (Virtual COM-Port)”** Software has been installed now.  
Press **“Close”** to finish installation.

# Appendix

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IV

## 4. Appendix

### 4.1. Product information

Ord.no.: USB-RS485-STICK

Product: USB-RS-485-converter with galvanic isolation

Productlink: <http://www.deditec.de/en/entwicklungstools/prod/usb-rs485-stick.html>

## 4.2. Revisions

Rev 1.00	First issue
Rev 2.00	Design change

### **4.3. Copyrights and trademarks**

Linux is registered trade-mark of Linus Torvalds.

Windows CE is registered trade-mark of Microsoft Corporation.

USB is registered trade-mark of USB Implementers Forum Inc.

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