# **User Manual CUEwire Converter 232/422/485**

Version 01

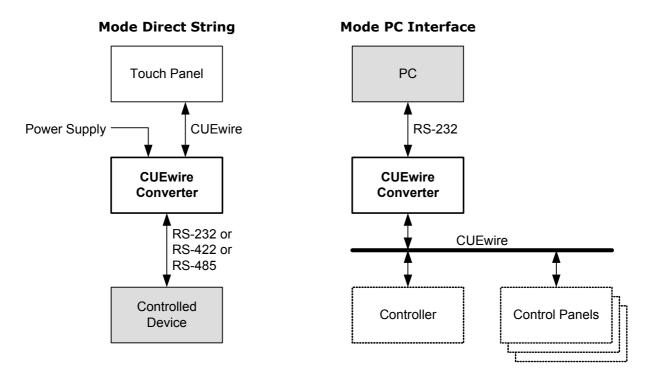
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## 2. Introduction

## 2.1. Overview

A CUEwire Converter 232/422/485 is a converter between CUEwire and other types of serial channels (RS-232, RS-422 and RS-485). It can be used in the **Mode Direct String** or **Mode PC Interface** as displayed on the following picture.



**Mode Direct String** allows a standard touch panel to be connected to a serial controlled device (e.g. switcher, projector, video conference, etc.). Additional power supply for converter and for touch panel can be connected to the CUEwire Converter.

**Mode PC Interface** allows a standard PC to operate as a control panel. Using the same design programming tools as used for all CUE touch panels, the interface provides a communications link between a free serial port on the PC and CUEwire (RS-485).

## 2.2. Models

Model	Product code	Description	
CUEwire Converter	CS0233	Converter between CUEwire and other types of serial channels.	

### 2.3. Features

- System connection by CUEwire
- Serial ports RS-232, RS-422 and RS-485
- Two operation modes Direct String or PC Interface
- Simple installation

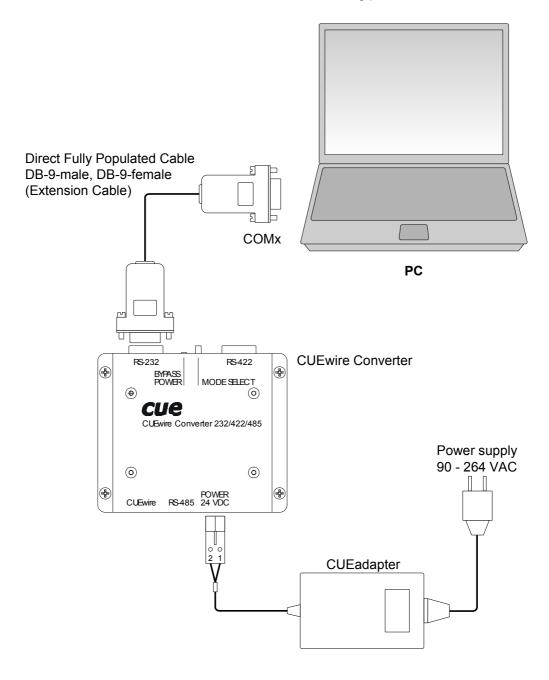
## 3. Setup

Default factory setting is

- Mode Direct String
- Baud rate **4800 bd**.

This setting can be changed. Steps are

1. Connect CUEwire Converter as described on the following picture.



2. Switch OFF the power supply (CUEadapter).

- 3. Run a terminal program on your PC.
- 4. Set following communication parameters of the terminal program

- 5. Push and hold **MODE SELECT** button on the CUEwire Converter.
- 6. Switch ON the power supply (CUEadapter). Yellow LED (POWER indicator) is flashing and the terminal program displays

CUEwire Converter V1.03
Mode Direct String
Baud rate 4800 bd
Type H for command list
\*

- 7. Release **MODE SELECT** button.
- 8. Type **H** for a command list. The terminal program displays

CUEwire Converter V1.03 Mode Direct String Baud rate 4800 bd Commands: D .... Select Mode Direct String I .... Select Mode PC Interface 1 .... Set baud rate 300 bd 2 .... Set baud rate 600 bd 3 .... Set baud rate 1200 bd 4 .... Set baud rate 2400 bd 5 .... Set baud rate 4800 bd 6 .... Set baud rate 9600 bd 7 .... Set baud rate 19200 bd 8 .... Set baud rate 38400 bd 9 .... Set baud rate 57600 bd 0 .... Set baud rate 115200 bd

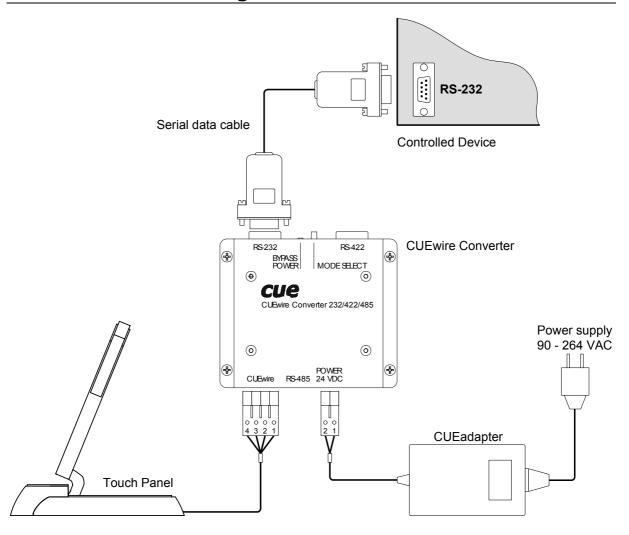
Type D to select Mode Direct String and type number to select requested baud rate or

Type I to select Mode PC Interface.

10. Switch OFF and ON the power supply (CUEadapter).

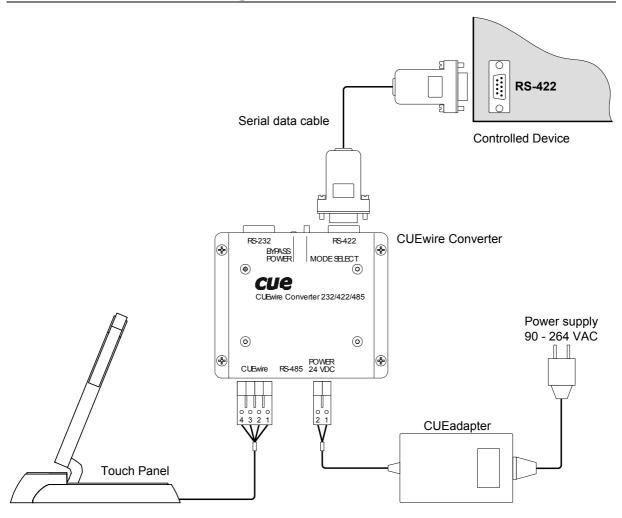
# 4. Connecting

## 4.1. Mode Direct String - RS-232 Control



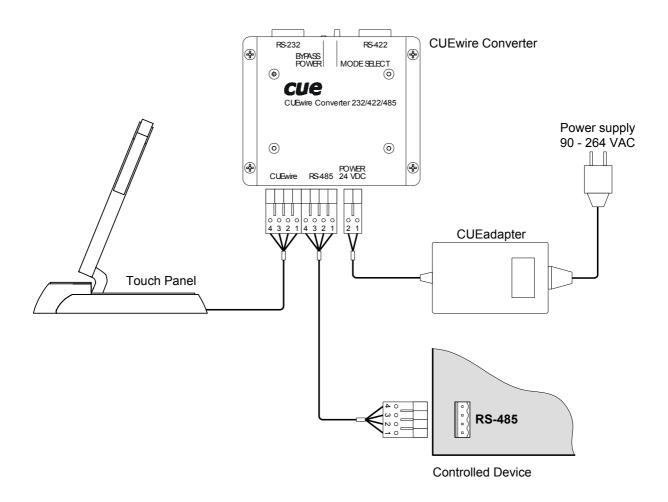
RS-232, DB-9-female connector		
	Pin 1	Carrier Detect
	Pin 2	RxD
/5 /1	Pin 3	TxD
	Pin 4	DTR (Data Terminal Ready)
	Pin 5	GND (Signal Ground)
	Pin 6	DSR (Dasta Set Ready) - connected to DTR
\9 \6	Pin 7	RTS (Request To Send)
	Pin 8	CTS (Clear To Send)
	Pin 9	Not used

## 4.2. Mode Direct String - RS-422 Control



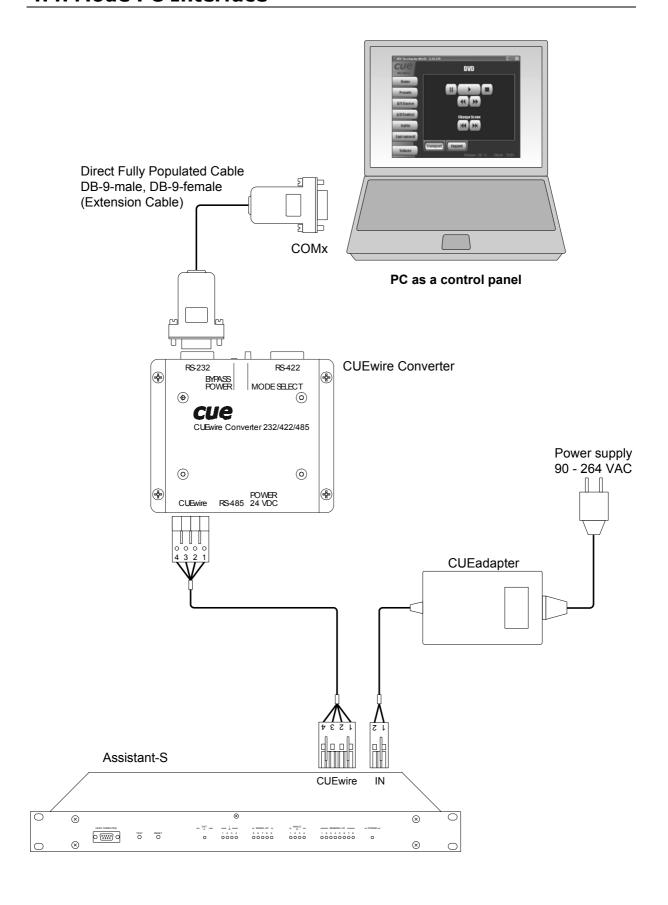
RS-422, DB-9-female connector		
	Pin 1	GND (Signal Ground)
	Pin 2	RxData-
<sub>/</sub> 5 <sub>/</sub> 1	Pin 3	TxData+
	Pin 4	Not used
	Pin 5	GND (Signal Ground)
	Pin 6	Not used
\9 \6	Pin 7	RxData+
	Pin 8	TxData-
	Pin 9	Not used

## 4.3. Mode Direct String - RS-485 Control



RS-485, 4-pin connector		
/1 /2 /3 /4	Pin 1	+24 VDC
	Pin 2	GND (Signal Ground)
	Pin 3	Data A+
	Pin 4	Data B-

## 4.4. Mode PC Interface



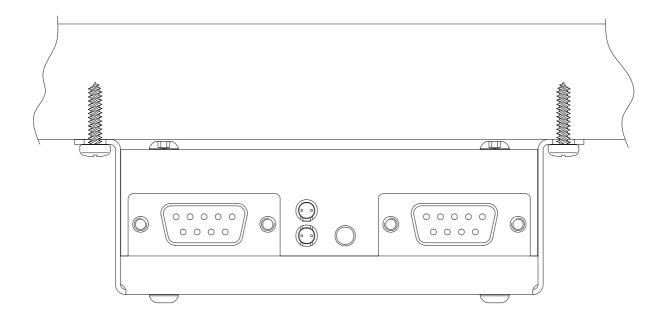
## 4.5. CUEwire and Power Connectors

CUEwire, 4-pin connector		
/1 /2 /3 /4	Pin 1	+24 VDC
	Pin 2	GND (Signal Ground)
	Pin 3	Data A+
	Pin 4	Data B-

CUEwire, 2-pin connector		
1 2	Pin 1	+24 VDC
	Pin 2	GND (Signal Ground)

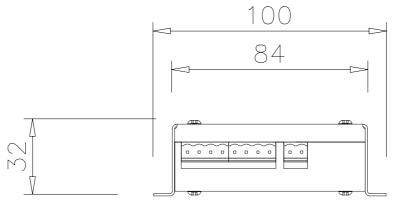
# 5. Mounting

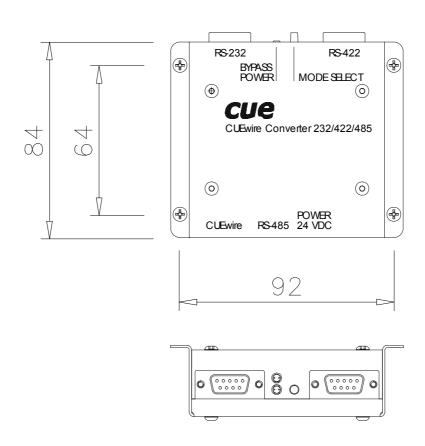
The CUEwire Converter can be mounted under desk of a table as displayed on the following picture.



# 6. Specifications and Mechanical Drawings

#### All dimensions are in mm.





## 7. Software and Firmware License

END-USER NOTICE AND LICENSE AGREEMENT FROM CUE. a.s.

NOTICE TO END-USER: CAREFULLY READ THE FOLLOWING LEGAL AGREEMENT (THIS "LICENSE"). INSTALLATION OR USE OF THE ENCLOSED CUE, a.s. SOFTWARE PROGRAMS (COLLECTIVELY, "SOFTWARE") ON YOUR COMPUTER SYSTEMS OR HARDWARE DEVICES CONSTITUTES YOUR ACCEPTANCE OF THESE TERMS. IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE, PROMPTLY DELETE THE SOFTWARE FROM YOUR COMPUTER SYSTEMS AND HARDWARE DEVICES, DESTROY ANY COPIES YOU MADE OF THE SOFTWARE OR ANY INSTALLATION MEDIA OF THE SOFTWARE INCLUDED WITH YOUR SYSTEM, AND DISPOSE OF ALL WRITTEN MATERIALS IN YOUR POSSESSION REGARDING THE SOFTWARE.

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## 8. Warranty Conditions

#### **Warranty Duration**

CUE, a.s. provides warranty for all CUE products for a period of 3 years from the day of purchase. The provided warranty for touch screens is 2 years from the day of purchase. CUE accepts reclamation of 5 not properly working dots and more (2 dots join – 1 counts). The warranty provided for rechargeable accumulators is 6 months from the day of purchase

#### Liability

CUE is not liable for any consequential damage caused by CUE products including any loss of profits, incidental or consequential damages or any claims made by a third parties.

#### **General Warranty Terms**

- a) CUE warrants that its products are without defects in material and are fully functional for the duration of the warranty.
- b) Warranty repairs are free of charge. The customer will send the damaged device to CUE at his cost.
- c) All warranty repairs and after warranty services are made at CUE premises. It is strictly prohibited to repair CUE products or to change any accessory parts, except those parts with limited service life. CUE is not liable for consumables or parts with limited service life (lamps, batteries etc.)
- d) The warranty further does not apply to the following cases
  - Damages caused by operating the system not according to the conditions defined in user manual or instruction (wrong power supply voltage, operation outside deferred temperature range, operation in humid environment and mechanical damages).
  - Damages caused by faulty service, maintenance, connection, and use of other than original connection cable.
  - Damage caused by agencies i.e. incidental or unpredictable impacts (fire, earthquake, flood, thunder, strong electric induction, water, strong wind, theft, vandalism etc.)

#### **After Warranty Services**

- a) All warranty repairs are normally on a 'back to base' basis, as defined in 3 c)
- b) All out warranty repair costs will be fully charged to the customer.
- c) In cases where our staff are called out to assist, cost of transport and time will be at customer cost

## 9. CE Declaration of Conformity



## We, the producer CUE, a.s., Na Dolinách 6, Praha 4, Czech Republic

acknowledge our sole responsibility, that the product incl. accessories

#### Kind of equipment

Remote Control System

#### Type designation

CS0197 touchCUE-L 99, CS0159 touchCUE 99, CS0157 touchCUE-S 99,

CS0183 touchCUE-V, CS0198 touchCUE-L, CS0200 touchCUE-M, CS0176 touchCUE-MM, CS0122 touchCUE, CS0142 touchCUE-S.

CS0178 touchCUE-V /t, CS0199 touchCUE-L /t, CS0204 touchCUE-M /t, CS0143 touchCUE-S /t,

CS0158 touchCUE-S /w, CS0224 touchCUE-S /d,

CS0205 touchCUE-M /r, CS0144 touchCUE-S /r

ST0007 Guide, CS0188 touchCUE-SRF, CS0171 rfbaseCUE,

ST0013 monitorCUE-V, CS0203 monitorCUE, CS0190 touchCUE-V /i, CS0151 PC Interface 485

CS0170 rfCUE 99, CS0170 rfCUE 99, CS0149 irCUE 99, CS0133 irCUE, CS0080 irCUE Receiver,

CS0169 irCUE Receiver 485,

CS0221 keypadCUE-1G, CS0222 keypadCUE-2G, CS0223 keypadCUE-3G,

CS0145 keyboardCUE 99, CS0128 keyboardCUE, CS0174 keyboardCUE-S, CS0129 keyboardCUE /t,

CS0146 keyboardCUE-S /w, CS0130 keyboardCUE /r, CS0191 inputCUE,

CS0173 eCUE

CS0051 Assistant, CS0150 Assistant-S, CS0100 PC Card, CS0227 CUEwire Splitter,

CS0008 smartCUE, CS0201 sbiCUE-DMX, CS0009 soundCUE, CS0004 analogCUE, CS0005 auxCUE,

CS0165 PED202, CS0166 PEF200, CS0167 PER610, CS0163 PEC25, CS0225 PEA208, CS0164 PED108,

CS0184 CUEadapter /10W, CS0226 CUEadapter /20W, CS0185 CUEadapter /50W, CS0186 CUEadapter /80W,

CS0168 PES03, CS0016 powerAUX,

PT0005 Cue Director, PT0004 Teach-In, PT0006 WinKit

in accordance with EMC Directive 89/336/EEC, is in compliance with the following norms or documents: EN50082-1 (IEC801-2), IEC65(CO)39, DIN VDE 0839 part 82-1, DIN VDE 0843 part 4, IEC801-4, EN50081-1 EN55022 class B, DIN VDE 0839 part 81-1, EN55014, EN55011.

Jaroslav Dibitanzl

Member of Board of Directors

## 10. FCC

#### Caution

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

11. Notes	