# BARTEC

### Supplementary description – Translation of the original Addendum to user manual 11-A1S4-7D0001

BCS36x8ex Series

Type 17-A1S4-\*HP\* ATEX / IECEx Zone 1/21 NEC / CEC Class I, II, III Division 1

Type B7-A2S4-\*HP\* and B7-A2S4-\*ER\* ATEX / IECEx Zone 2/22 NEC / CEC Class I, II, III Division 2

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# Table of content

of con	tent	2
Gener 1.1 1.2	al information about programming Programming of universal supply module (USM) – corded: Programming of the universal supply module (USM) - Bluetooth:	3 3 4
1.3	Programming of the supply module EX I:	4
Defau	It values of USM - Bluetooth	5
2.1	USM – Bluetooth for BCS3678ex – Bluetooth hand-held scanner	5
	2.1.1 USB-HID	6
	2.1.2 USB-SPP	6
	2.1.3 RS232	6
	2.1.4 RS422	7
	2.1.5 RS485	7
Prepa	ration of USM - Bluetooth and PC	8
3.1	About the Universal Supply Module (USM) - Bluetooth	8
3.2	Requirements	9
3.3	COM-port selection 1	0
Progr	amming Baud Rate of USM - Bluetooth1	11
4.1	Programming 1	11
4.2	The parameter list for baud rate	16
Read	out Bluetooth Address of USM - Bluetooth1	17
5.1	Read Bluetooth address 1	17
	of con Gener 1.1 1.2 1.3 Defau 2.1 Prepa 3.1 3.2 3.3 Progra 4.1 4.2 Read 5.1	of content         General information about programming         1.1       Programming of universal supply module (USM) – corded:         1.2       Programming of the universal supply module (USM) - Bluetooth:         1.3       Programming of the supply module Ex i:         Default values of USM - Bluetooth

# 1. General information about programming

### 1.1 Programming of universal supply module (USM) – corded:

The universal supply module transmits the data of the serial interface 1 to 1.

To establish a connection with a PC, the interface parameters on the hand-held scanner and the PC/host have to be identical.

The interface parameters of the hand-held scanner can be adjusted via the programmable codes in the Zebra "Product Reference Guide" or by using the Zebra 123 Scan Utility. The interface parameters of the PC/host can be adjusted via the settings e.g. in the device manager.

### Download:

- Zebra "Product Reference Guide":
  - BARTEC Support and Download Page: http://automation.bartec.de/scannerE.htm
    - => Data Capture
    - => BCS3600ex Hand-Held Scanner Series
    - => Category Manuals --- Zebra Manuals
  - Zebra Support and Download Page:

https://www.zebra.com/us/en/support-downloads.html

- => Barcode Scanners
- => Ultra Rugged Scanners ---- DS3608-HP/DS3678-HP
- => Category ---- Manuals
- Zebra "123Scan Utility":
  - Zebra Support and Download Page:

https://www.zebra.com/us/en/support-downloads.html

- => Barcode Scanners
- => Ultra Rugged Scanners ---- DS3608-HP/DS3678-HP

---- DS3608-ER/DS3678-ER

=> Category ---- Utilities

### 1.2 Programming of the universal supply module (USM) - Bluetooth:

The Bluetooth hand-held scanner is paired or connected to the USM via Bluetooth.

Interface parameters cann't be adjusted directly on the Bluetooth hand-held scanner (e.g. by scanning programmable codes or via 123 Scan Utility).

All settings have to be made directly on the Bluetooth USM.

### The manual describes:

- The programming of the baud rate of the Bluetooth USM via a terminal program (e.g. H-Term). The Bluetooth USM has to be connected to a PC via a serial interface (RS232 or USB-SPP). A terminal program e.g. H-Term is required on the PC to transfer the settings.
- How to read the Bluetooth address of the installed Bluetooth module. The address can be used/needed to create a pairing barcode using the 123 Scan Utility.

### 1.3 Programming of the supply module Ex i:

### Important note to supply module Ex i:

The serial parameters of the supply module Ex i can't be re-programmed.

It is valid for following supply modules:

Supply module Ex i	Order number	Zone 1	Zone 2	Div 2	Available interface
For cabled scanner version BCS3608 <sup>ex</sup> -IS	17-A1Z0-0025	Х	-	-	<ul> <li>USB-SPP*</li> </ul>
For Bluetooth scanner version BCS3678 <sup>ex</sup> -IS	17-A1Z0-0028	Х	-	-	• RS232

The serial parameters of the Ex i moduls set to:

RS-232 and USB-SPP Host-Parameters (Default)				
Baud Rate:	9600 Baud			
Parity:	Keine/None			
Stop Bits:	1 Bit			
Data Bits:	8 Bit			
Hardware Handshaking:	Keine/None			
Software Handshaking:	Keine/None			

# 2. Default values of USM - Bluetooth

2.1 USM – Bluetooth for BCS3678<sup>ex</sup> – Bluetooth hand-held scanner



### 2.1.1 USB-HID

USB-HID is not supported.

### 2.1.2 USB-SPP

- USB-SPP is plugged in the USB port on PC/Host.
- USB-SPP is recognized on PC/Host as a (virtual) serial interface.

RS-232-Host-Parameters (Default)				
	USM 1. Generation with Dip-switch	UVM 2. Generation without Dip-switch		
Baud Rate:	115200 Baud	9600 Baud		
Parity:	Keine/N	lone		
Stop Bits:	1 Bi	it		
Data Bits:	8 Bi	it		
Hardware Handshaking:	Keine/N	lone		
Software Handshaking:	Keine/N	lone		

### 2.1.3 RS232

- RS232 is plugged in serial port on PC/Host.
- RS232 is recognized on PC/Host as a serial interface.

RS-232-Host-Parameters (Default)				
	USM 1. Generation with Dip-switch	UVM 2. Generation without Dip-switch		
Baud Rate:	115200 Baud	9600 Baud		
Parity:	Keine/N	lone		
Stop Bits:	1 Bi	t		
Data Bits:	8 Bi	t		
Hardware Handshaking:	Keine/N	lone		
Software Handshaking:	Keine/N	lone		

### 2.1.4 RS422

• The RS422 is a standard interface.

RS-422-Host-Parameters (Default)				
	USM 1. Generation with Dip-switch	UVM 2. Generation without Dip-switch		
Baud Rate:	115200 Baud	9600 Baud		

### 2.1.5 RS485

• The RS485 is a standard interface.

RS-485-Host-Parameters (Default)				
	USM 1. Generation with Dip-switch	UVM 2. Generation without Dip-switch		
Baud Rate:	115200 Baud	9600 Baud		

# 3. Preparation of USM - Bluetooth and PC

### 3.1 About the Universal Supply Module (USM) - Bluetooth

The USM with Bluetooth option (1<sup>st</sup> generation) is in the default settings on 115200 baud. The USM with Bluetooth option (2<sup>nd</sup> generation) is in the default settings on 9600 baud. The instruction describes how to change the baud rate.

Universal supply module (USM)		Order number	Zone 1	Zone 2	Div 2	Available interface
For cabled	scanner	B7-A2Z0-0042	-	Х	-	
version BCS3608	<sup>ex</sup> -NI	B7-A2Z0-0042US	-	-	Х	
For cabled version BCS3608	scanner <sup>ex</sup> -IS	17-A1Z0-0018	Х	-	-	<ul><li>USB-SPP*</li><li>RS232</li></ul>
For Bluetooth	scanner	B7-A2Z0-0043	-	Х	-	• RS422
version BCS3678	<sup>ex</sup> -NI	B7-A2Z0-0043US	-	-	Х	• RS485
For Bluetooth version BCS3678	scanner <sup>ex</sup> -IS	17-A1Z0-0019	Х	-	-	

The instruction is valid for following universal supply modules.

\* USB is working only as SPP (Single Port Profile)

The scanner is connected via USB. On the PC/Host is the USB identified as a virtual serial interface.

HID is not supported by communication over USM.

### 3.2 Requirements

- A terminal program for setup. In this description is H-term used.
- A serial connection between USM and a PC with a terminal program. Option 1. RS232 connection
   Option 2: USB-SPP connection (virtual COM (communication) port)
- The USM connected to power (AC 85 to 253 V or DC 24 V)
- The USM DIP-switch and the interface is with the correct setup.



<b>()</b>	Driver for the universal supply module (USM). On connecting the USM to a PC, the driver is automatically detected by the Windows operating system and installed. If the automatic detection does not work, then the driver can be downloaded from the BARTEC download page or directly from the FTDI website and installed manually. The driver is compatible with: - Windows 10, 8.1, 8, 7 32/64 bit
	BARTEC download page: <u>http://automation.bartec.de/</u>

### 3.3 COM-port selection

After connecting the USM via RS232 or USB-SPP, the operating system assigns automatically a COM port.

Go to the device manager to find out which COM port has been assigned.



# 4. Programming Baud Rate of USM - Bluetooth

### 4.1 Programming

Programming of the USM can be started after the connection is established.



Important is to unpair the scanner from the "Universal Supply Module".

It is not possible to change the programming or read data out of the module as long the module is paired with a scanner.

Unpair the hand-held scanner from the "Universal Supply Module".

Scan the barcode below to disconnect all existing hand-held scanner connections to "Universal Supply Module", base station/PC host/other Bluetooth devices.

Unpairing



The following steps illustrate the programming of the USM with the terminal program H-term. The example describes the change from 115200 baud to 9600 baud. The table in chapter 4.2 shows all parameter for all possible baud rate.

Required command:

Command	Description
\$\$\$	This command causes the device to enter Command mode and display a command prompt. The device passes characters as data until it sees this exact sequence. The escape character to enter Command mode can be changed with the S\$ command.
	Example: \$\$\$ // Enter Command mode
	This command causes the device to exit Command mode, displaying END. <b>Example:</b> // Exit Command mode
SU,xx	Command SU sets the UART baud rate. Chapter 3.4 shows the input parameters and their corresponding baud rates. Default: 03 xx: parameter for baud rate Example: SU,07 // Set the UART baud rate to 19200

### 4.4.1 Open terminal application.

HTerm 0.8.1beta	
File Options View He	lp)
Connect Port C	0M6 • R Baud 115200 • Data 8 • Stop 1 • Parity None • CTS Flow control
Rx 0 F	Reset Tx 0 Reset Count 0 🚔 0 Reset Newline at None V 🖉 Show newline characters
Clear received	sci Hex Dec Bin Save output Clear at 0 + Newline every 0 + Wautoscroll Show errors Newline after ms 0 + CTS DSR RI DO
Sequence Overview X	Received Data
	1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105
	Selection (-)
	Input control In
	Irransmitted data
	History -/0/10 Not connected

### 4.4.2 Make correct setup

Select correct COM port Baud = 115200 Data = 8 Stop = 1

Parity = None

Send on enter = CR+LF (needed to transmit the parameter)

HTerm 0.8.1beta		x
File Options View Help		
Connect Port COM6	🔹 🛛 🖉 R 🛛 Baud 115200 🔹 Data 🛛 💌 Stop 1 🔹 Parity None 💌 🔲 CTS Flow control	
Rx 0 Reset	Tx 0 Reset Count 0 A Reset None V Show newline	
Clear received	Hex Dec Bin Save output Telear at 0 Telear	<b>OCD</b>
Sequence Overview X	ceived Data	
1	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105	
Se	Jection (-)	
	icontrol ut options Jear transmitted VAsci Hex Dec Bin Send on enter CR-LF Send file DTR RTS	×
Туре	ASC V	end
Trans	mitted data	×
1	5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105	
	History -/0/10 Not connected	

### 4.4.3 Connect to the COM port

Press Connect



#### 4.4.4 Activate/Enter command mode

- 1. type \$\$\$ in the red marked field "1".
- 2.a --- shows the send parameter "\$\$\$"
- 2.b --- shows the confirmation command "CMD". Command mode is activated.

🔁 🖿 🔤
File Options View Help
Disconnect Port COM6    R Baud 115200  Data 8  Stop 1  Parity None  CTS Flow control
Rx 5 Reset Tx 5 Reset Count 0 - 0 Reset Newline at None Show rewline characters
Clear received VAsci Hex Dec Bin Save output V Clear at 0 V Newline every 0 V Autoscrol Show errors Newline after ms 0 V Clear at 0 V Newline every 0 V Autoscrol Show errors Newline after ms 0 V V O V V O V V O V V O V V O V V O V V O V V O V V V O V V V O V
Sequence Overview X Received Data
1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 CMD> 2.b
Input control
Input options     Clear transmitted     Image: Asci ima
Type ASC V \$\$\$\$ 1.
1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 \$\$\$\$ 2.a
History -/1/10 Connect to COM6 (b:115200 d:8 s:1 p:None)

### 4.4.5 Change baud rate

- 1. type SU,09 in the red marked field "1". "SU,09" is the command to change the baud rate to 9600 baud.
- 2.a --- shows the send parameter "SU,09"
- 2.b --- shows the confirmation command "CMD> AOK". The parameter is changed/accepted.

Rx 15	Reset Tx 12 Reset Count 0 0 Reset Newline at None
Clear received	Asci Hex Dec Bin Save output V Clear at 0 🖈 Newline every 0 🐳 V Autoscroll Show errors Newline after ms receive pause (0=off) 0 🐺 CTS DSR RI
Sequence Overview	X Received Data
	1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 EMD> ROK, CMD> 2.6
	Selection (-)
	Input control Input options Clear transmitted VAsci Hex Dec Bin Send on enter CR-LF Send file DTR RTS

### 4.4.6 Exit command mode

- 1. type --- in the red marked field "1". "---" is the command to exit the command mode.
- 2.a --- shows the send parameter "---"
- 2.b --- shows the confirmation command "END". Command mode ended.

📲 HTerm 0.8.1beta	
File Options View Help	
Disconnect Port CO	M6 • R Baud 115200 • Data 8 • Stop 1 • Parity None • CTS Flow control
Rx 20 Re	set Tx 17 Reset Count 0 🔿 0 Reset Newline at None V Show newline characters
Clear received	i Hex Dec Bin Save output V Clear at 0 x Newline every 0 x V Autoscroll Show errors Newline after units 0 x CTS DSR RI DCD
Sequence Overview X	Received Data
	1 5 10 10 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 CMD> AOKynCMD ENDyn 2.b
	Selection (-)
	Input control X
	Clear transmitted     V Asci     Hex     Dec     Bin     Send on enter     CR-LF     Send file     DTR     RTS
	Type ASC - 1. ASend
	Transmitted data ×
	1 5 10 55 60 65 70 75 80 85 90 95 100 105 \$
	, History - (2/10 Connect to COM6 (b:115200 d-8 c1 p:None)

### 4.4.7 Finish programming

- 1. Disconnect serial interface and close terminal application.
- 2. Restart the USM. (switch USM off and on)

After restart, the new baud rate is activated.

# 4.2 The parameter list for baud rate

Baud Rate Index	UART Baud Rate
00	921600
01	460800
02	230400
03	115200**
04	57600
05	38400
06	28800
07	19200
08	14400
09	9600*
0A	4800
0B	2400
0C	3000000
0D	4000000
0E	3250000
0F	1843200
10	307200
<b>()</b>	<ul> <li>* Default value of: 1<sup>st</sup> generation USM corded 2<sup>nd</sup> generation USM corded and Bluetooth</li> <li>** Default value of: 1<sup>st</sup> generation USM Bluetooth</li> </ul>

# 5. Read out Bluetooth Address of USM - Bluetooth

### 5.1 Read Bluetooth address

Every USM with Bluetooth is equipped with a pairing barcode to establish a connection between Bluetooth scanner and USM.

Description	Barcode
Master Barcode: Must be scanned first that scanner switch to pairing mode.	
	Bluetooth Serial Port Profile (Master)
Pairing Barcode: Content of the pairing barcode is the Bluetooth address of the module inside of USM. The barcode must be scanned to establish the connection	
between scanner and USM.	D88039FC8E97 (Bluetooth Address of the remote device) Example barcode

The following steps illustrate how to read the Bluetooth address of a generation 2 USM (without Dip switch). For this example the terminal program H-term is use. It works with every other terminal application as well.



**(i)** 

j

Important is to unpair the scanner from the "Universal Supply Module".

It is not possible to change the programming or read data out of the module as long the module is paired with a scanner.

Unpair the hand-held scanner from the "Universal Supply Module".

Scan the barcode below to disconnect all existing hand-held scanner connections to "Universal Supply Module", base station/PC host/other Bluetooth devices.

Unpairing



#### Required command:

Command	Description
\$\$\$	This command causes the device to enter Command mode and display a command prompt. The device passes characters as data until it sees this exact sequence. The escape character to enter Command mode can be changed with the S\$ command. <b>Example:</b> \$\$\$ // Enter Command mode
	This command causes the device to exit Command mode, displaying END. <b>Example:</b> // Exit Command mode
GB	Command GB read out the Bluetooth address of the USM.

### 4.4.1 Open terminal application.

0 i Dear received	Reset Tx 0 Reset Count 0 0 Reset Newline at None V Autoscroll Show errors Newline after one 0 0 CTS DS	DSR RI
lear received	Asci Hex Dec Bin Save output V Clear at 0 Newline every 0 Newline after ms 0 CTS DS	DSR R1
	E la constante la constante la constante la constante la constante la constante (unemple de constante de cons	0 0
ence Overview X	X Received Data	
	1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100	105
	Selection (-)	
	Selection (·)	
	Selection (·)	
	Selection (-) Input control Input control Input options	
	Selection (-) Input control In	
	Selection (·)         Input control         Input options         Clear transmitted         ✓ Asci         → Hex         ○ Dec         ③ Send on enter         ○ CR-UF         ✓ Send file         ○ DTR         RTS	
	Selection (-) Input control Input options Clear transmitted Asci Hex Dec Bin Send on enter CR-UF Send file DTR RTS	
	Selection (-)       Input control       Input control       Input control       Clear transmitted       Masci       Hex       Dec       Bin       Send on enter       CR-UF       Send file       DTR       RTS	
	Selection (-)         Input control         Input control         Input control         Clear transmitted         ✓ Asci         Hex       Dec         Bin       Send on enter         CR-UF       Send file         DTR       RTS         Type       ASC	
	Selection (-)         Input control         Input options         Clear transmitted         ✓ Asci         Hex         Dec         Bin         Send on enter         CR-LF         Send file         DTR         RTS         Type         Asci         Transmitted data	

### 4.4.2 Make correct setup

Select correct COM port Baud = 9600 Data = 8 Stop = 1 Parity = None Send on enter = CR+LF (needed to transmit the parameter)

Rx 0 I	leset Tx		0	Reset	Cou	int 0	:		0	Reset	Newline	e at Nor	ne		× 🗹	Show ne character	wine s						
Clear received	di 🗌 Hex 🗌 De	: 🗌 Bi	n 🗄 🗄	Save out	put 🔻		Dear at	0 🔅	Newling the second	racters	0		Autoscrol	I 🗌 Sho	w errors	: Newline	ne after le pause (0-	ms =off)	0 🔅	CTS	DSR	RI D	ĉ
quence Overview X	Received Da	ta														MILE:						1995	l
	1 5	.0	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	251	ĺ
	Selection (-)																						
	Selection (-)	_	_		_	_			_			_	_	_		_		_	_	_	_	_	
	Selection (-) Input control Input options		~~				_															_	
	Selection (-) Input control Input options Clear transm	tted	As	ioi 🗌 H	lex 🗆 D	vec []E	in <mark>Se</mark>	nd on ent	er CR-U	# <b>&gt;</b>	Send	fie	DTR	RTS							_		
	Selection (-) Input control Input options Clear transm	tted	As	idi 🗌 H	ex D	ec 🗌 E	in <mark>Se</mark>	nd on ent	er CR-U	4 V	Send	fie	DTR	RTS								Tarta	
	Selection (-) Input control Input options Clear transm Type ASC	tted	🗹 As	idi 🗌 H	iex 🗍 D	vec 🗌 B	in <mark>Se</mark>	and on ent	er (R-U	e 🗸	Send	fie	DTR	RTS								ASer	

### 4.4.3 Connect to the COM port

Press Connect



#### 4.4.4 Activate/Enter command mode

- 1. type \$\$\$ in the red marked field "1".
- 2.a --- shows the send parameter "\$\$\$"
- 2.b --- shows the confirmation command "CMD". Command mode is activated.

💤 HTerm 0.8.1beta	-	- 0	×
File Options View Help			
Disconnect Port COM1 V R Baud 9600 V Data 8 V Stop 1 V Parity None V CTS Flow control			
Rx 60 Reset Tx 20 Reset Count 0 • 0 Reset Newline at None V Show newline that design of the set of			
Clear received Asci Hex Dec Bin Save output 💌 Clear at 0 🔹 Newline every 0 🐳 Autoscrol Show errors Newline after ms	0 🛊 🛛	CTS DSR R	
Sequence Overview X Received Data			
1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 CMD> 2.b Selection (-) Input control	95 10	00 105	x
Input options         Clear transmitted       ☑ Ascii         □ Hex       □ Dec         □ Bin       Send on enter         CR-LF       ✓         Send file       DTR         RTS			
Type ASC V S\$\$ 1.			ASend
Transmitted data			×
2.a 25 30 35 40 45 50 55 60 65 70 75 80 85 90	95 10	00 105	
History -/8/10 Connect to COM1 (b:9600 dt8 st1 a:No	one)		

#### 4.4.5 Read out Bluetooth address

1. type GB in the red marked field "1". "GB" is the command to read the Bluetooth address.

2.a --- shows the send parameter "GB"

2.b --- shows the confirmation command "CMD> AOK". The parameter is read.

In this example is "D88039FC8E97" the Bluetooth address.

Note: Each Bluetooth module has a unique address.

and HTerm 0.8.1beta	-		×
File Options View Help			
Disconnect Port COM1 V R Baud 9600 V Data 8 V Stop 1 V Parity None V CTS Flow control			
Rx 79 Reset Tx 24 Reset Count 0 - 0 Reset Newline at None V daracters			
Clear received Asci Hex Dec Bin Save output V Clear at 0 + Newline every 0 + Autoscrol Show errors Newline after ms	0 🕂 🖸	S DSR R	I DCD
Sequence Overview X Received Data			
1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 CMD> D 8039FC8E97, CMD Selection (-) Input control	95 100	) 105	,
Input options       Clear transmitted       Asci       Hex       Dec       Bin       Send on enter       CR-LF       Send file       DTR       RTS			
Type ASC V GB 1.			ASend
Transmitted data			>
1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 \$\$\$ 2.a	95 100	) 105	

#### 4.4.6 Exit command mode

1. type --- in the red marked field "1". "---" is the command to exit the command mode.

2.a shows th	ie send parameter ""
2.b shows th	e confirmation command "END". Command mode ended.
HTerm 0.8.1beta	- 🗆 X
File Options View Help	p
Disconnect Port CO	M1 V R Baud 9600 V Data 8 V Stop 1 V Parity None V CTS Flow control
Rx 84 Re	eset Tx 29 Reset Count 0 🔹 0 Reset Newline at None Show newline characters
Clear received	ii Hex Dec Bin Save output 🔻 Clear at 0 🔹 Newline every 0 🔹 Autoscroll Show errors Newline after ms 0 🔹 CTS DSR RI DCD
Sequence Overview X	Received Data
	1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 CHD> D88039FC8E97 <sub>vw</sub> CHD> END <sub>vw</sub> 2.b
	Selection (-)
	Input control A
	Clear transmitted     Image: Asci in the section of the
	Type ASC v 1. ASend
	Transmitted data X
	1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 \$\$\$\$GB <sub>vv</sub> 2.a
	History -/10/10 Connect to COM1 (b:9600 d:8 s:1 p:None)

#### 4.4.7 Finish

- 1. Disconnect serial interface and close terminal application.
- 2. Restart of the USM is not required, because no changes on programming done.