



Help for WinKomTrans

Softwareversion 1.0 for MS Windows 98SE, ME, 2000, XP

min. 300 MHz Pentium, Screen: min. 1024x768 Pixel , one (optional two) unused seriell PC-Interface

KOMTECH KomTrans RS232-Code-Transtator Version **KomTrans 1** and higher

Contents

[First steps ...](#)

[Searching for connection and data transfer](#)

[On successful searching for connection and data transfer](#)

[Editing of command lists](#)

[Linking commands COM1](#)

[Linking commands COM2](#)

[Data transfer to KOMTECH KomTrans](#)

[Editing of status register](#)

[Querying the status register \(Feedback COM1\)](#)

[Querying the status register \(Tx-COM2\)](#)

[Technical Data](#)

[Possible causes for malfunction](#)

Description: KOMTECH KomTrans

KomTrans is designed to connect devices with different communication parameters and codes. The most important parameters of the interfaces are configurable. It is possible to define up to 32 different control strings with up to 31 characters for each interface. The character set includes all ASCII-Codes Hex 00 to Hex FF. The input codes are those codes KomTrans is configured to process. These codes are placed in four tables (Rx-COM 1, Tx-COM 2, Rx-COM 2 and Tx-COM 2).

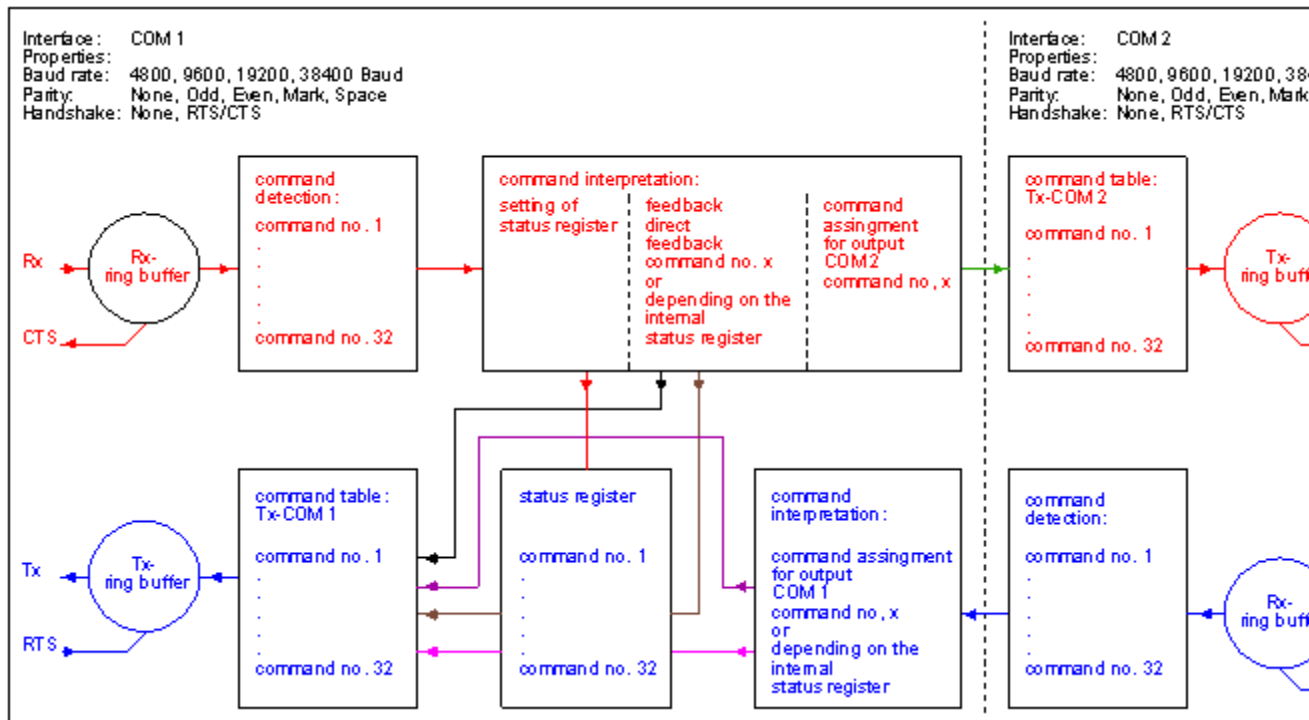


Bild 11

Configuration of interface COM 1:

For Interface COM 1 it is possible to define 32 commands for receive and 32 commands for transmit (tables RX-COM 1 and TX-COM 1. There are some additional functions on COM 1 to simulate a device.

These functions of COM 1 are:

- ➡ A received command defined in table Rx-COM 1 initiates a dedicated command from table Tx-COM 2. This command is transmitted on COM 2.
- ➡ Direct feedback from a command received on COM 1 and defined in Rx-COM 1. The dedicated answer command is defined in TX-COM 1. An internal status register is set according to the command.
- ➡ Oblique feedback to a received command on COM 1 with a transmit command of table Tx-COM 1 depending on the status register.
- ➡ Direct feedback to a received command on COM 2 enclosed in table Rx-COM 2 with the dedicated transmit command of table Tx-COM 1.
- ➡ Oblique feedback to a command received on COM 2 enclosed in table Rx-COM 2 with a transmit command from table Tx-COM 1 depending on the status register.

It is possible to combine functions out of the single functions.

For example:

- ➡ A recognized command of the table Rx-COM 1 initiates ...

- ➡ The depending command of table Tx-COM 2 emitted on COM 2 and direct feedback as defined in table Tx-COM 1 emitted on COM 1.
- ➡ A feedback of the device at COM 2 is interpreted like table Rx-COM 2 and initiates a transmit command from table Tx-COM 1 depending on the status register emitted on COM 1.

Configuration of interface COM 2:

For Interface COM 2 it is possible to define 32 commands for receive and 32 commands for transmit.

Configuration of both interfaces:

Both interfaces can be configured individually.
These parameters are possible:

Baud rate: 4800, 9600, 19200 und 38400 Baud

Parity: None, Odd, Even, Mark or Space

Format: 8 Data-Bit, 1 Parity-Bit, 1 Stop-Bit

Flow control: None or RTS/CTS

First Steps [to table of contents](#)



KOMTECH KomTrans

RS232 Code Translator



KOMTECH
Kommunikationstechnik GmbH

Straßheimer Str. 45
DE-61169 Friedberg/Hessen
Germany

Phone: +49 (0)6031 7947-0
Fax: +49 (0)6031 7947-47

www.komtech.de

www.cf-media.info

info@komtech.de



KOMTECH GmbH

< Previous

Next >

Picture 1 (Startup page)

1. Choose Language

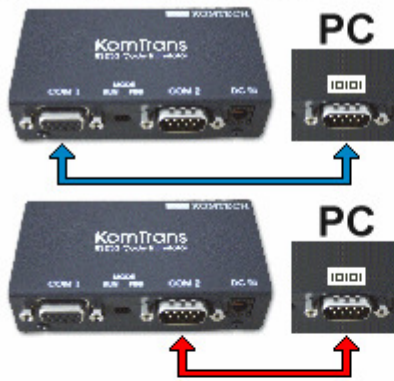
Click here to choose your language

2. Next

A mouse click leads to the next window [Connection](#)

Possible Connections to KOMTECH KomTrans

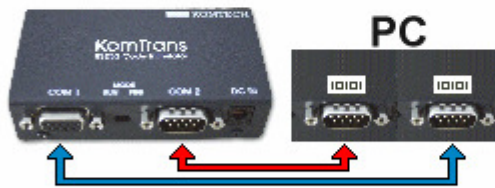
PC with one serial interface



Switch 'MODE' at KOMTECH KomTrans to 'Prog'.
Disconnect the power supply of KOMTECH KomTrans for a few seconds.
(Hardwreset)
Connect COM1 of KOMTECH KomTrans to a free COM-interface of your PC.
(Cables for connection are shown below)
Afterwards click on 'Search for Connection and data transfer'.

Connect COM2 of KOMTECH KomTrans to the COM-interface of your PC.
(Cables for connection are shown below)
Afterwards click on 'Search for Connection and data transfer'.

PC with two serial interfaces



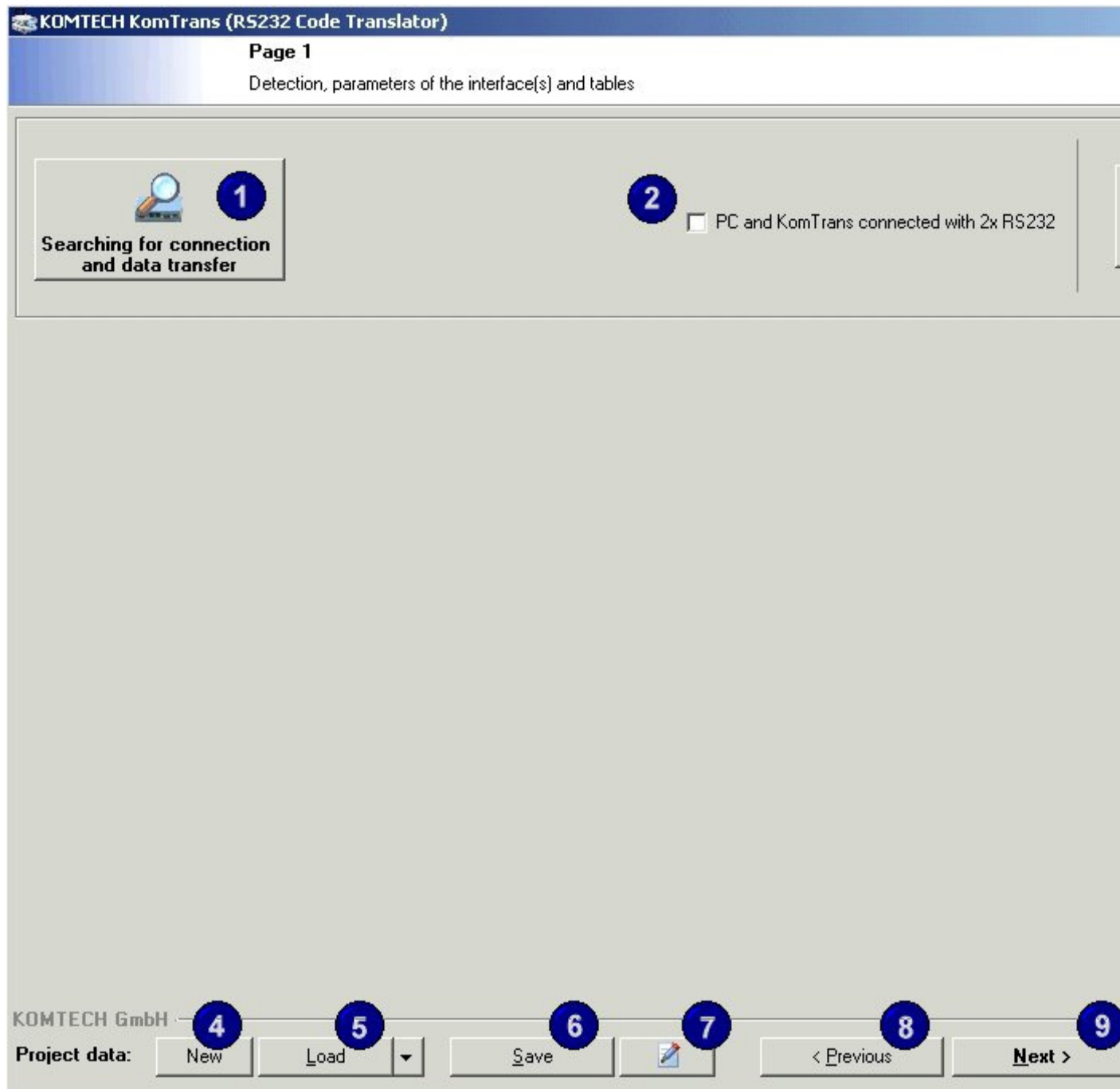
Switch 'MODE' at KOMTECH KomTrans to 'Prog'.
Disconnect the power supply of KOMTECH KomTrans for a few seconds.
(Hardwreset)
Connect COM1 and COM2 of KOMTECH KomTrans to the COM-interfaces of your PC.
(Cables for connection are shown below)
Afterwards click on 'Search for Connection and data transfer'.



Picture 2 (Possible connections)

[to table of contents](#)

[Searching for connection and data transfer](#) [back to table of contents](#)



Picture 3 (Main page without project data)

Click on the button Search a Connection...

1. Checking the connection and data transfer [back](#)

Click on this Button to start an automatic search.

KOMTECH KomTrans is searched. If a connection is established the project data is loaded.

2. KomTrans is connected with 2 interfaces RS 232 to your PC [back](#)

If your PC is equipped with 2 interfaces RS232, KOMTECH KomTrans may be connected to both interfaces. Therefore it is not necessary to change between COM1 and COM2 of KOMTECH KomTrans. Set a hook if you want to use this option.

3. Factory reset [back](#)

KOMTECH KomTrans is reset to the condition of delivery.

Caution: If KOMTECH KomTrans is connected to your PC with only one Com-interface this has to be done for both interfaces of KOMTECH KomTrans.

4. New [back](#)

Click on 'New' creates a new project. Settings not saved or transfered will be lost.

5. Load [back](#)

An existing project can be loaded.

Settings not saved or transferred will be lost.

6. Save [back](#)

Saves the current project data.

7. Projekt info [back](#)

Adds enhanced information to the project.

8. Next/ 9. Prev [back](#)

Go to page 2 / Go back to Startup page

10. Exit [back](#)

Terminates the program.

Settings not saved or transferred will be lost.

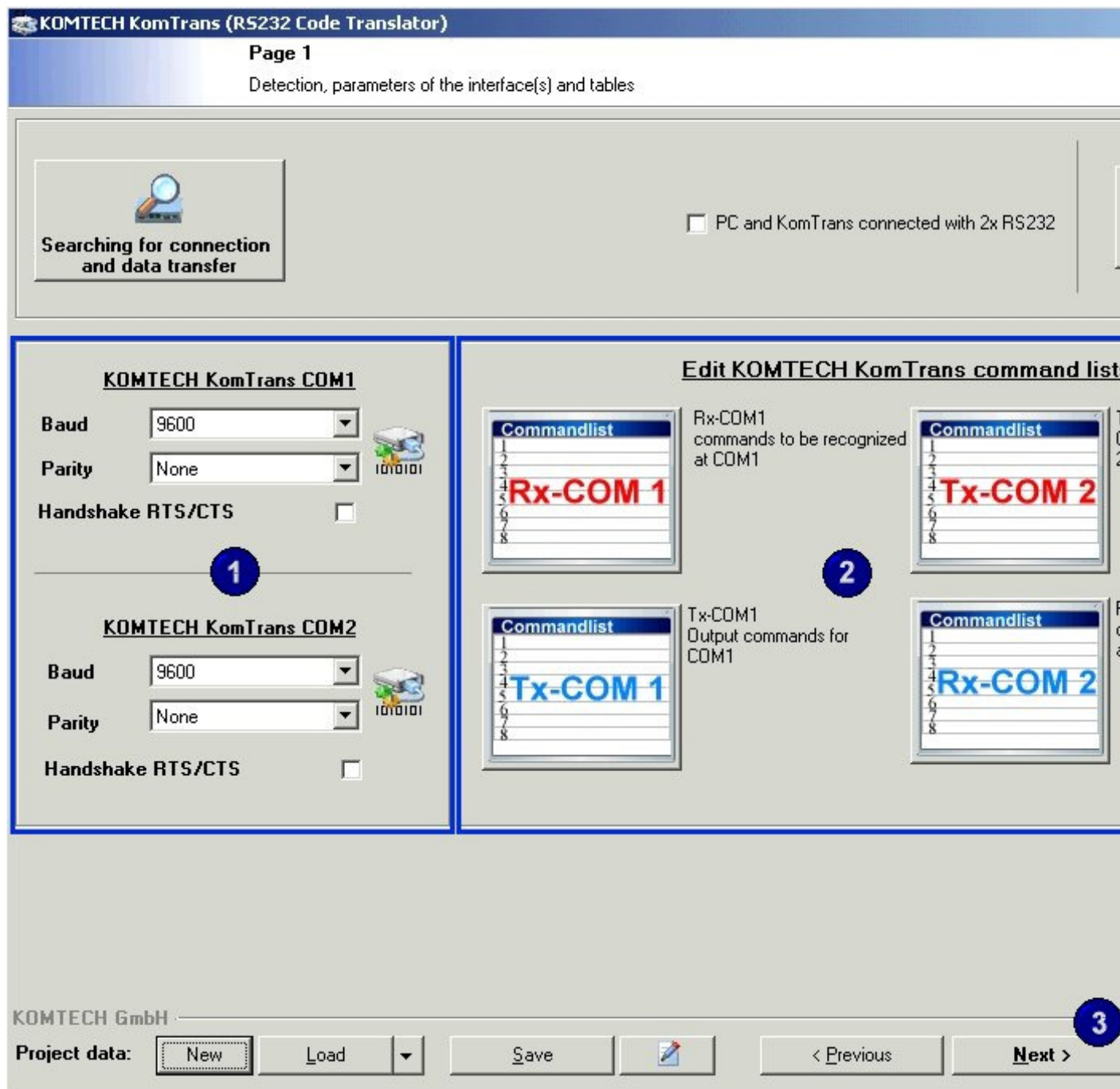
[Possible causes for malfunction](#)

Caution: If a connection to KOMTECH KomTrans is established, do not disconnect until the program is terminated.

[to table of contents](#)

On a successful searching for connection and data transfer

[to table of contents](#)



Picture 4 (Main window with project data)

1. Setting of Com [back](#)

Any of both interfaces can be configured individually.

These parameters are configurable:

Baud rate: 4800, 9600, 19200 or 38400 Baud

Parity: None, Odd, Even, Mark or Space

Flow control: Off or RTS/CTS

2. Tables Rx/Tx-COM1/2 [back](#)

Table Rx-COM 1: List including the commands that will be recognized on COM1

Table Tx-COM 1: Commands for output on COM1

Table Tx-COM 2: Commands for output on COM2

Table Rx-COM 2: List including the commands that will be recognized on COM2

3. Next

Go to page 2

[to table of contents](#)

Editing of command lists [to table of contents](#)

Rx-COM 1

1	Description:	Beamer On	1
	ASCII:	Beamer On	
	HEX:	42 65 61 6D 65 72 20 4F 6E	
2	Description:	Beamer Off	
	ASCII:	Beamer Off	
	HEX:	42 65 61 6D 65 72 20 4F 66 66	
3	Description:	Input VGA	
	ASCII:	Input VGA	
	HEX:	49 6E 70 75 74 20 56 47 41	
4	Description:	Input FBAS	
	ASCII:	Input FBAS	
	HEX:	49 6E 70 75 74 20 46 42 41 53	
5	Description:	Input YC	
	ASCII:	Input YC	
	HEX:	49 6E 70 75 74 20 59 43	
6	Description:	16:9	
	ASCII:	16:9	
	HEX:	31 36 3A 39	
7	Description:	4:3	
	ASCII:	4:3	
	HEX:	34 3A 33	
8	Description:	Info Input	
	ASCII:	Info Input	
	HEX:	49 6E 66 6F 20 49 6E 70 75 74	



List Rx-COM 1
Commands to be recognized at COM1

3
☒ Adopt text in ASCII as info (0x20 to 0xFF)

Picture 5 (Command list)

1. Fields for input of text [back](#)

Info field for up to 64 characters to describe the command.

Input of command in ASCII up to 31 ASCII-characters

Input of command in Hex. Up to 31 Hex-characters 00-FF

2. Table of Hex/ASCII character codes [back](#)

Opens the table Hex/ASCII character codes

3. ASCII-Text for description [zurück](#)

Adopts text in ASCII for info, if active

4. Ok [back](#)

Saves data and closes this window

[to table of contents](#)

Linking commands COM1 [to table of contents](#)

KOMTECH KomTrans (RS232 Code Translator)

Page 2

Linking tables... KomTrans COM 1 -> COM 2

Rx-COM 1

COM 1
KomTrans

Commandlist

1

1

Tx-COM 2

COM 2
KomTrans

Commandlist

1

Rx-COM 1

COM 1
KomTrans

Commandlist

1

2

8 Status register

9 Query status register (F

Save

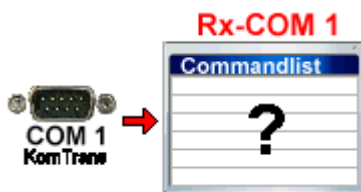
< Previous

Next >

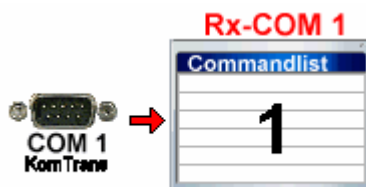
10

Picture 6 (Linking of commands COM1)

1. Info for linking tables of a selected command Rx-COM1 [back](#)



No command given in Rx-COM1



Command given in Rx-COM1, but there is no linked command of Tx-COM2.

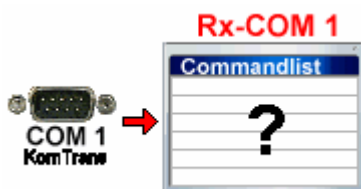
The command no. is shown



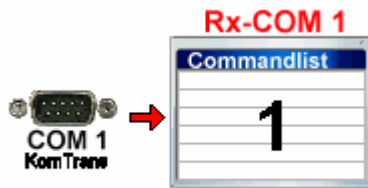
Command entered and linked to Tx-COM2.

The command no. is shown

2. Info for linking Rx-COM1 and Tx-COM1 (Feedback) [back](#)



No command selected from Rx-COM1



Command selected from Rx-COM1, but not linked to table Tx-COM1
The command no. is shown



Command selected from Rx-COM1 and linked to a command of table Tx-COM1 (Feedback)
The command no. is shown



Command entered in Rx-COM1 and linked for a feedback using query of the status-register
The command no. is shown

3. Info for Rx-COM1 [back](#)

Info field for up to 64 characters to describe the command.

Input for command in ASCII up to 31 ASCII-characters

Input for command in Hex. up to 31 Hex-characters 00-FF

4. Selection for output command [back](#)

Select the output command here

5. Editing of table output Tx-COM2 [back](#)

6. Selection of feedback [back](#)

Query status register or output of a defined command

7. Edit table for output commands Tx-COM1 [back](#)

8. Edit status register [back](#)

Opens dialog box for status register

>> [Editing of status-register](#)

9. Querying status register (Feedback) [back](#)

Opens dialog box status register (Feedback) >>>[Querying the status-register \(Feedback COM1 and answer COM2\)](#)

10. Next [back](#)





To page 3

[to table of contents](#)

Linking commands COM2 [to table of contents](#)

KOMTECH KomTrans (RS232 Code Translator)

Page 3
Linking tables... KomTrans COM 2 -> COM 1




1	Description:	Recognized command (Rx-COM2):	B ON	2	Output command (Tx-COM1):	01 - Beamer is on	3
	ASCII:	B ON					
	HEX:	42 20 4F 4E					
2	Description:	Recognized command (Rx-COM2):	B OFF	2	Output command (Tx-COM1):	02 - Beamer is off	3
	ASCII:	B OFF					
	HEX:	42 20 4F 46 46					
3	Description:	Recognized command (Rx-COM2):	VGA	2	Output command (Tx-COM1):	03 - Input VGA active	3
	ASCII:	VGA					
	HEX:	56 47 41					
4	Description:	Recognized command (Rx-COM2):	YC	2	Output command (Tx-COM1):	05 - Input YC active	3
	ASCII:	YC					
	HEX:	59 43					

Status register 5

6 Query of status register

KOMTECH GmbH

Save

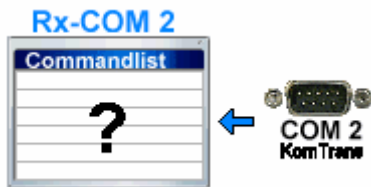


< Previous

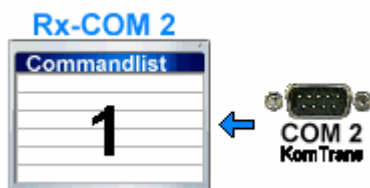
Next > 7

Picture 7 (Linking of commands COM2)

1. Info for linking of tables RxCOM2 and Tx-COM1 [back](#)



No command selected from Rx-COM2



Command of Rx-COM2 selected, but not linked to table Tx-COM1
The command no. is shown



Command selected from Rx-COM2 and linked to a command of table Tx-COM2
The command no. is shown



Command selected from Rx-COM2 and linked using query of the status register
The command no. is shown

2. Info for Rx-COM2 [back](#)

Info field for up to 64 characters to describe the command.
Input for command in ASCII up to 31 ASCII-characters
Input for command in Hex. up to 31 Hex-characters 00-FF

3. Selection of output command [back](#)

Hier können Sie den Tx-COM1-Befehl auswählen

4. Edit table Tx-COM1 [back](#)

Opens Tx-COM1 for update

5. Edit status register [back](#)

Opens dialog for setting of the status register >>[Editing of status-register](#)

6. Querying of status register (Tx-COM1) [back](#)

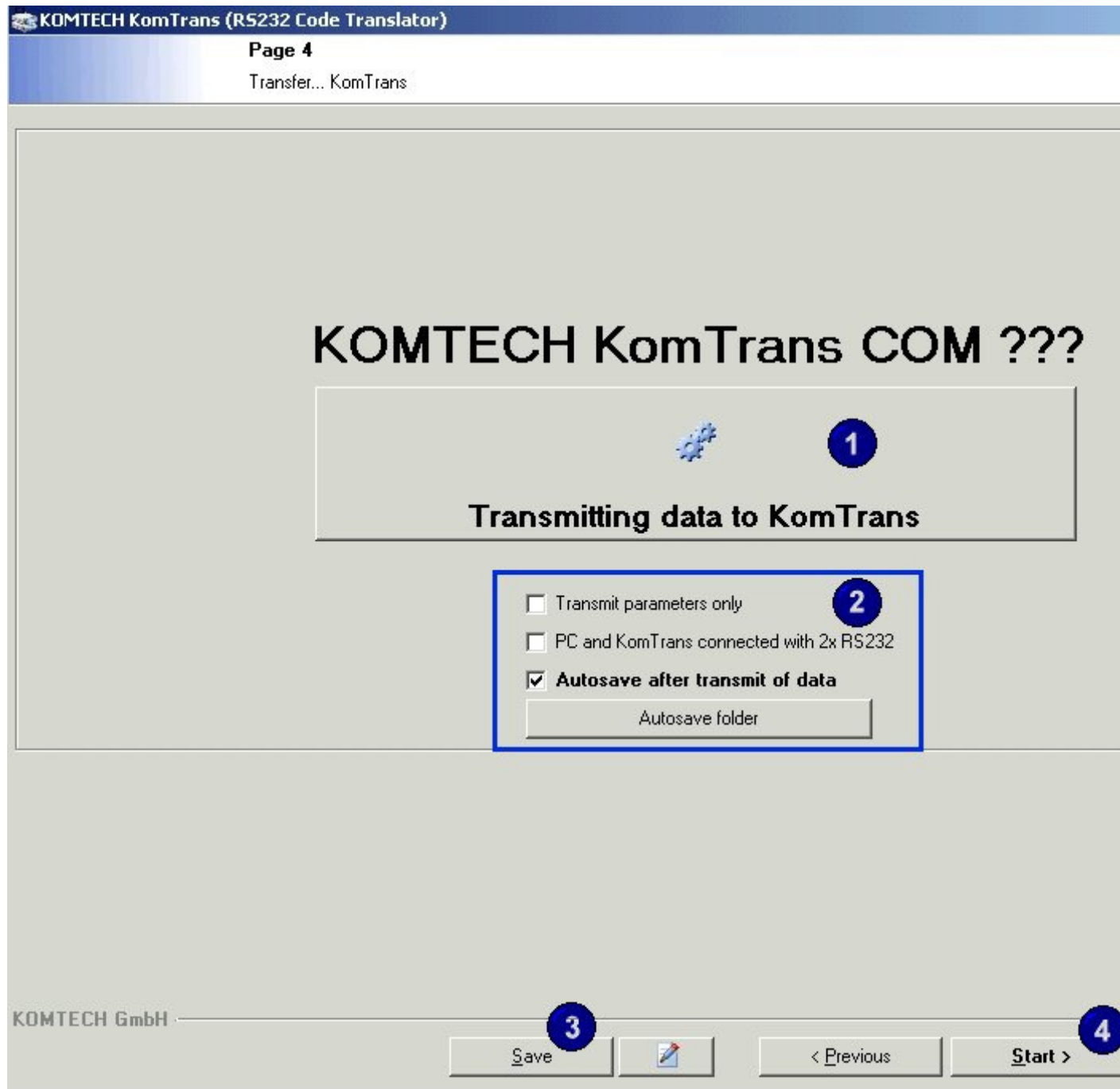
Opens dialog for query of status register (Tx-COM1) >>[Querying of status-register \(Feedback COM1 and answer COM2\)](#)

7. Next [back](#)

To page 4

[to table of contents](#)

[Transfer data to KOMTECH KomTrans](#) [to table of contents](#)



Picture 8 (Data transfer)

1. Transfer data [back](#)

Starts transfer of data to KOMTECH KomTrans

2. Options [back](#)

1. Transmit port parameter only (Baud rate, Parity, flow control)
2. PC connected to KOMTECH KomTrans with two interfaces RS232
3. Create Autosave File after transfer of data (important: Descriptions for commands are not stored in KOMTECH KomTrans)

3. Save [back](#)

stores projekt data

4. Start [back](#)

back to the startup page

[to table of contents](#)

Editing of status register [to table of contents](#)

Status Register bearbeiten

Rx-COM1

- Beamer On
- Beamer Off
- Input VGA
- Input FBAS
- Input YC
- 16:9
- 4:3
- Info Input
- Info Beamer
- Format ?
- Off

Tx-COM1

- Beamer is on
- Beamer is ...
- Input VGA ...
- Input FBAS...
- Input YC a...
- 16:9 active
- 4:3 active

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

Standard

Neutral

Rx-COM1: 4. Input FBAS Tx-COM1: 18.

Processing status neutral set delete

ToolTip

Picture 9

1. Field status register [back](#)

Overview for setting of state

2. Description Rx-COM1 [back](#)

Description of commands Rx-COM1

3. Description Tx-COM1 [zback](#)

Description of commands Tx-COM1

4. Info selected linking Rx-COM1 to Tx-COM1 [back](#)

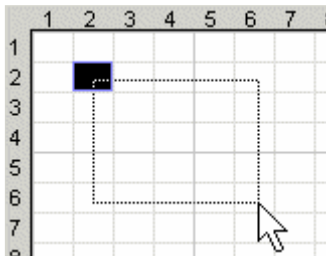
5. Selected Processing of status [back](#)

neutral = neutral

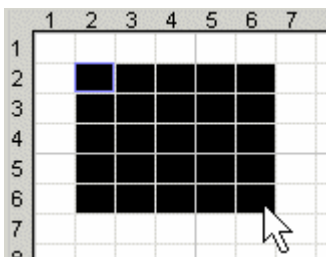
set = set

delete = delete

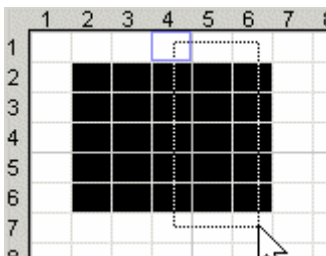
Multiple selection



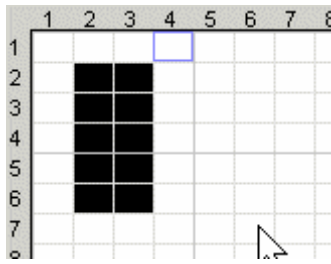
Picture 9.1



Picture 9.2



Picture 9.3



Picture 9.4

6. ToolTip [back](#)

Toggles ToolTip text information on or off

7. Ok [back](#)

Applies data and closes the window.

[to table of contents](#)

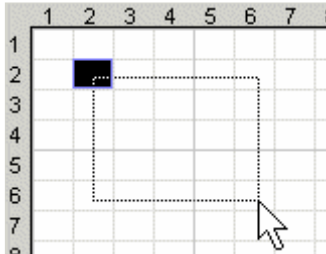
[Querying the status register \(Feedback COM1\)](#) [to table of contents](#)

5. Select query [back](#)

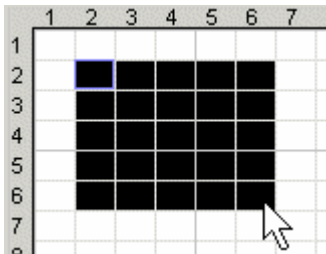
No = no query

Yes = query

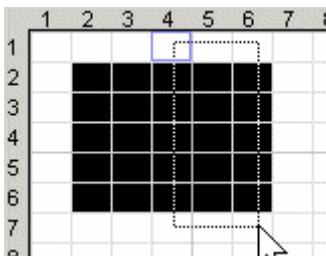
Multiple selection



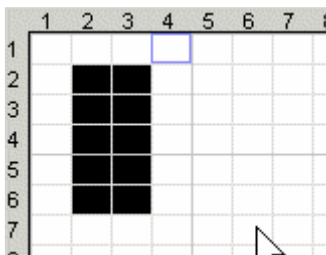
Picture 10.1



Picture 10.2



Picture 10.3



Picture 10.4

6. Show status register [back](#)

"Show status register" is a mixed mode of setting status register and query status register

7. ToolTip [back](#)

Toggles ToolTip information on or off

8. Ok [back](#)

Applies data and closes the window.

[to table of contents](#)

Querying status register (Tx-COM2) [to table of contents](#)

Query status register COM2

Rx-COM2

B ON
B OFF
VGA
YC
16
4
Beamer OK

Tx-COM1

Beamer is on
Beamer is ...
Input VGA ...
Input FBAS...
Input YC a...
16:9 active
4:3 active

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	<input type="checkbox"/>																											
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												
13																												
14																												
15																												
16																												
17																												
18																												
19																												
20																												
21																												
22																												
23																												
24																												
25																												
26																												
27																												
28																												
29																												
30																												
31																												
32																												

Query:

☐ ToolTip

Picture 11

1. Field status register [back](#)

Overview setting states

2. Description Rx-COM2 [back](#)

Description of commands Rx-COM2

3. Description Tx-COM2 [back](#)

Description of commands Tx-COM2

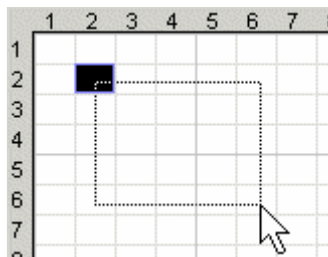
4. Info selected link Rx-COM2 to Tx-COM2 [back](#)

5. Select query [back](#)

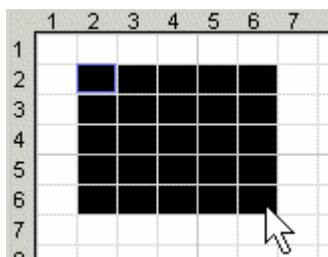
No = no query

Yes = query

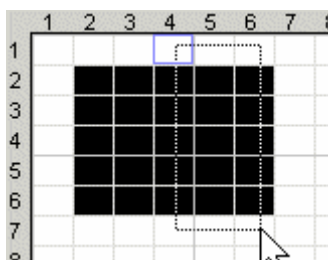
Multiple selection



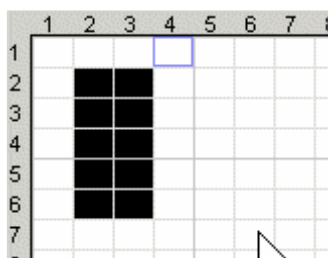
Picture 11.1



Picture 11.2



Picture 11.3



Picture 11.4

6. Show status register [back](#)

"Show status register" is a mixed mode of setting status register and query status register

7. ToolTip [back](#)

Toggles ToolTip information on or off

8. Ok [back](#)

Applies data and closes the window.

[to table of contents](#)

Technical data [to table of contents](#)

interface: COM 1 Connector: SUB-D 9 socket female

Socket assignment:

Socket 1: n.c.
Socket 2: Tx
Socket 3: Rx
Socket 4: DSR/DTR connected to socket 6
Socket 5: Ground
Socket 6: DSR/DTR connected to socket 4
Socket 7: CTS
Socket 8: RTS
Socket 9: n.c.

Interface: COM 2 Connector: SUB-D 9 pin male (PC)

Pin assignment:

Pin 1: n.c.
Pin 2: Rx
Pin 3: Tx
Pin 4: DSR/DTR connected to pin 6
Pin 5: Ground
Pin 6: DSR/DTR connected to pin 4
Pin 7: RTS
Pin 8: CTS
Pin 9: n.c.

Power supply: Extern power supply , 7-16V DC / 10mA

[to table of contents](#)

Possible causes for malfunction [to table of contents](#)

During programming:

COM1 or. COM2 of KOMTECH KomTrans is not connected to the PC.

KOMTECH KomTrans is not in programming mode (Set switch).

KOMTECH KomTrans not connected to power supply

Wrong or bad cables (normal/crossed).

Interface of the PC is used by another application.

Reboot your PC if the actions before are not successful.

In run mode:

KomTrans doesn't recognize commands >> check stored commands and links

>> KOMTECH KomTrans is not in 'Run' mode

(set switch).

>> Wrong or bad cables (normal/crossed)

>> KOMTECH KomTrans or connected device

is not connected to power supply

[to table of contents](#)

Subject to change without notice

____ KlausOtt

Copyright by KOMTECH GMBH Germany 2007