

Operating Manual

KomTrans

RS232 Code Translator

Version 1.1



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Chapter 1 Safety instructions

Please read the safety instructions carefully before switching on the unit. This is to ensure safe operation of the appliance. Store the instruction manual with the appliance to be able to look up hints. Note the warning-hints and follow the instructions in order to ensure a reliable use and a long life expectancy of your appliance.

- Please make sure the available voltage meets the requirements before plugging in your appliance.
- Don't let children play unsupervised with electric appliances. Children cannot always recognize dangerous hazards.
- Use the appliance only for the applications described in this instruction manual. KOMTECH doesn't take any liability for damages/ data loss as a result of improper handling or improper application.

Standards and regulations

- When planning electric installations the corresponding local Standards, instructions and regulations must be followed.
- Work on Installation-bus must be carried out by trained personnel.
- Laying and connecting of the Bus, as well as of the auxiliary appliances must be done according to the valid regulations. Safety regulations, accident prevention rules and laws for working equipment must be maintained for the connected appliances as well.
- Make sure that no conductive substances or liquids get into the product. Do not expose to liquids. Don't place containers that contain liquids on or near the appliance.
- Pull the cord of the appliance immediately if liquid ran into it and contact an authorized technician.
- Don't switch on the appliance if liquid ran into the appliance and contact an authorized technician.

Not following these instructions can lead to malfunction or damage of the appliance. The guarantee is void in that case.

Ambient temperature

- The recommended ambient temperature for the device is 0° C to 45° C within a relative atmospheric humidity of 10% to 90% (non condensing).
- When turned off, the appliance can be stored in 0° C to 70° C.
- Make sure to store the appliance safely. Avoid high temperatures (for example when stored in direct sunlight).

Electromagnetic compatibility

- For all additional components the „Policy for electromagnetic compatibility“ (EMC) must apply. Please see to it that only shielded cables are used when linking to external units from this appliance.
- When in use, electronic appliances cause electromagnetic radiation.
- These rays are harmless, however, other appliances can show signs of interference. Our appliances are tested and optimized for their electromagnetic compatibility.
- We can not exclude that difficulties occur in which the appliance itself, as well as also the electronics in the surroundings can be involved.
- If you should have such a problem, please try to solve it by checking the grounding and changing the insulation and positions of the appliances.

Maintenance

- Always pull the power plug and all connection cables before cleaning.
- The product must be checked in the following cases by a specialist:
- A conductive substance or fluid entered the housing of the product.
- The product was exposed to rain.
- The product doesn't seem to work properly or shows a clear alteration of the performance.
- The product was dropped or the case was damaged.
- If opening the appliance is necessary for maintenance, repair or replacement, the appliance must be disconnected from all voltage sources.
- Work on the opened appliance while under voltage can only be conducted by a high voltage trained and experienced specialist.

Data security

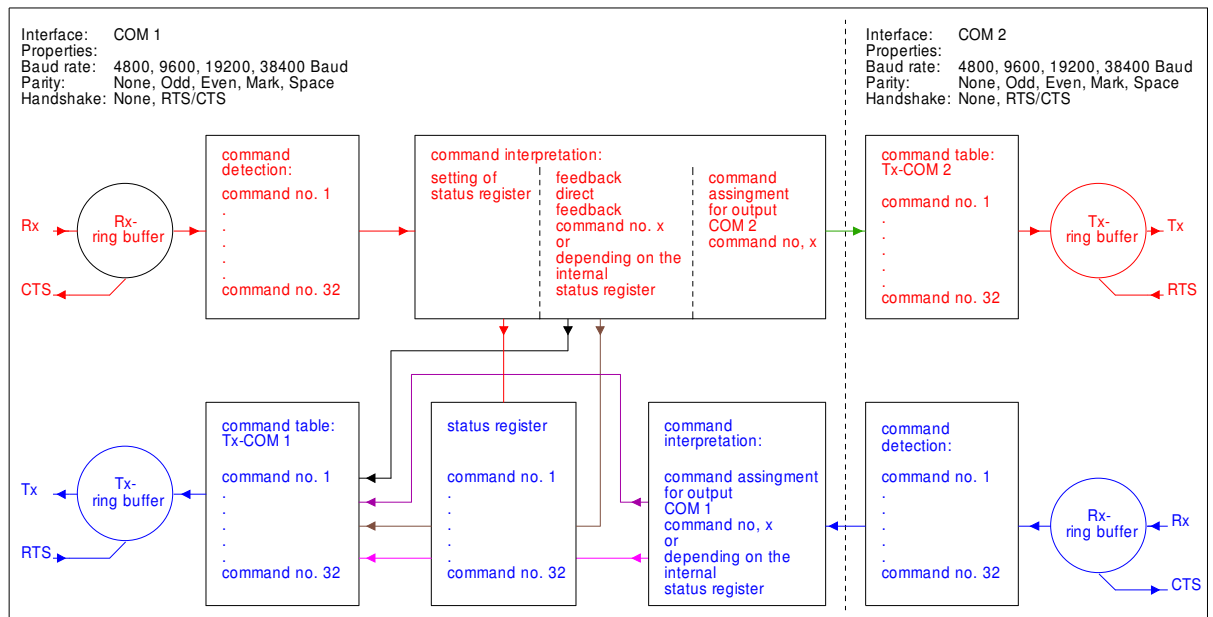
- The assertion of claims for data loss and resulting consequential damage is impossible. Do backup copies on external storage mediums (for example CD-R or floppy disk) after every update of your data.

Environment instructions

- Protect your environment, do not dispose Electronic products in the trash.
- If you would like to dispose the appliance, remove the batteries and accumulators it may contain and send it back to KOMTECH.
- The package is recyclable. Please dispose the package in the right recycle bin.
- KOMTECH is a manufacturer by §3 Abs.12 Line 2 ElektroG registered at the WEEE under DE 47108430.

Chapter 2 General description

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. All Codes are placed in four tables (Rx-COM 1, Tx-COM 2, Rx-COM 2 und Tx-COM 2).



Possibilities for configuration of COM1:

For Interface COM 1 it is possible to define 32 commands for receive and 32 commands for transmit. 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. A 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 command received 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.

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 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

Chapter 3 Connections

Interface: Connections

DTE Data Terminal Equipment (PC)

DCE Data Communications Equipment

PC		KomTrans			Beamer
Control (DTE)	Connection	COM 1 (DCE)	COM 2 (DTE)	Connection	Device
	New 1 : 1			Prev crossed	DTE
	New 1 : 1			Prev 1:1	DCE

Hint:

To transfer all data to the Komtrans device, the transmission of the commands have to be transmitted to both RS232 ports. Therefore the connection cable has to be connected to both ports one after another. The software helps you in this kind of transmission.

To program Komtrans switch to „PRG“ mode.
After successful programming and transmission to KomTrans, reset KomTrans by pulling the power supply and switching to “RUN” mode.

Kapitel 4 Technical data

Baud rate	4800, 9600, 19200, 38400 Baud
Parity	None, Odd, Even, Mark, Space
Format	8 Data-Bit, 1 Parity-Bit, 1 Stop-Bit
Flow control	None, RTS/CTS
Socket assignment COM1	
Type	SUB-D, 9-pol. female
Socket 1	n.c.
Socket 2	TX
Socket 3	RX
Socket 4	DSR/DTR connected to pin 6
Socket 5	Ground
Socket 6	DSR/DTR connected to pin 4
Socket 7	CTS
Socket 8	RTS
Socket 9	n.c.



Connections on COM1 : Do not use crossed cables!

Pin assignment COM2	
Type	SUB-D, 9-pol. male
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	CTS
Pin 8	RTS
Pin 9	n.c.
Dimensions (W x H x D)	94mm x 24mm x 56mm
Power supply	7-12V DC / 10 mA
Ambient temperature	5 - 45°C