

What's going on with USB ... ?? (May/July 2005)

During the last weeks and months, this question arised more and more often. Find following information for clarification.

USB means Universal Serial Bus and describes a modern serial interface at today's PCs and notebooks or laptops.

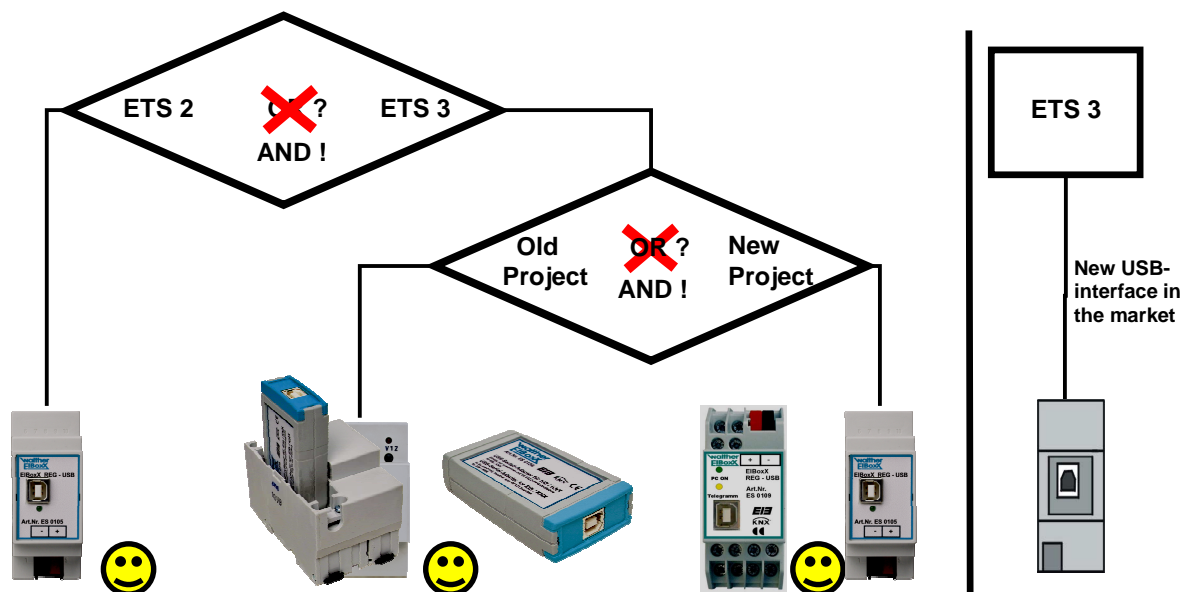
This interface becomes more and more popular and replaces the existing serial interfaces (9-pole D-Sub-Connector, also marked with COM1 etc.). In the future, less and less PCs and especially Notebooks and Laptops will have these interfaces (due to cost savings etc.).

USB is supported since WINDOWS 98 SE as operating system.

EIB-Users must be aware of this (interfaces at PCs) or need to look for additional hardware tools.

In principle, since the introduction of the new ETS 3 during light & building fair in Frankfurt in April 2004, we are faced with USB in the following scenarios:

- A) New project with ETS 3
- B) Old project with ETS 3 (with existing serial data interface RS 232)
- C) ETS 3
- D) ETS 2



USB:
Only **WALTHER-WERKE** offers the complete range:

**Old project and New project and ETS 2
and ETS 3.**

The USB-Interfaces
(announced by competitors
during light & building fair
2004), are only usable with
the ETS 3.

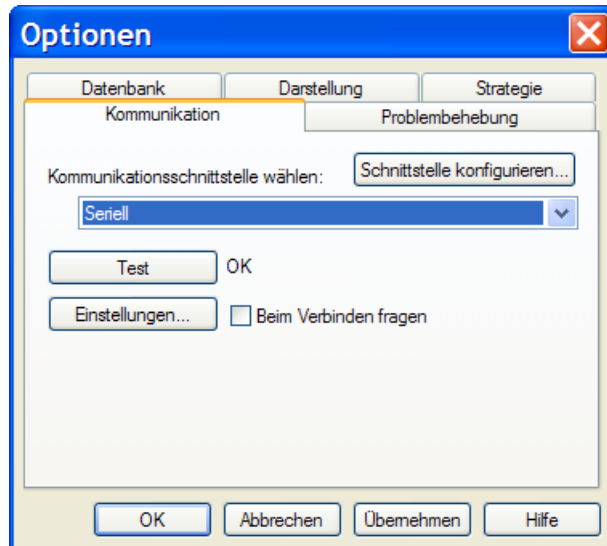
For all these tasks find the following information from Eisenberg/Germany.

A) New project with ETS 3

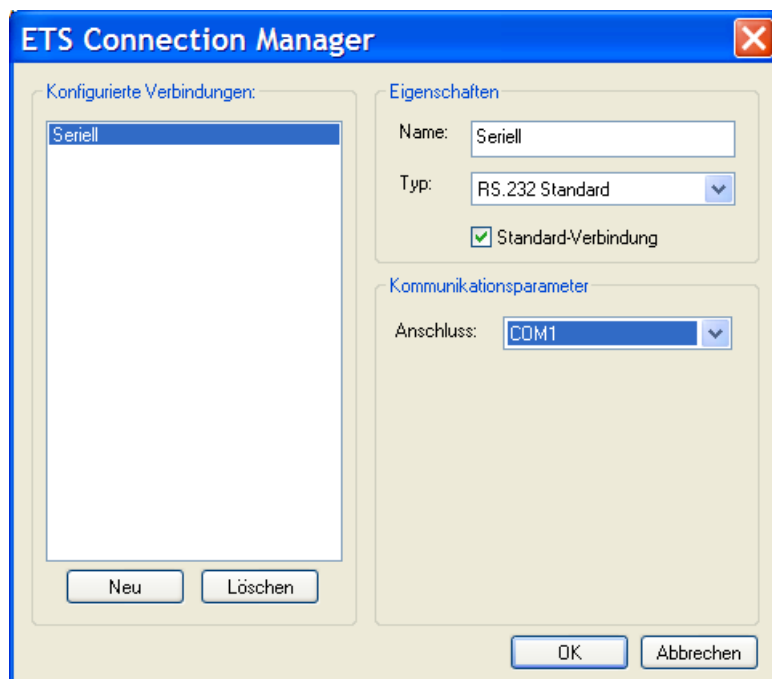
For ETS 3, available solutions are either USB-Interface ES 0109 (only for ETS 3) and the USB-Interface ES 0105 (for both ETS 2 and ETS 3).

In the ETS 3 Professional, choose in menu Extras – Options – Communication the required interface.

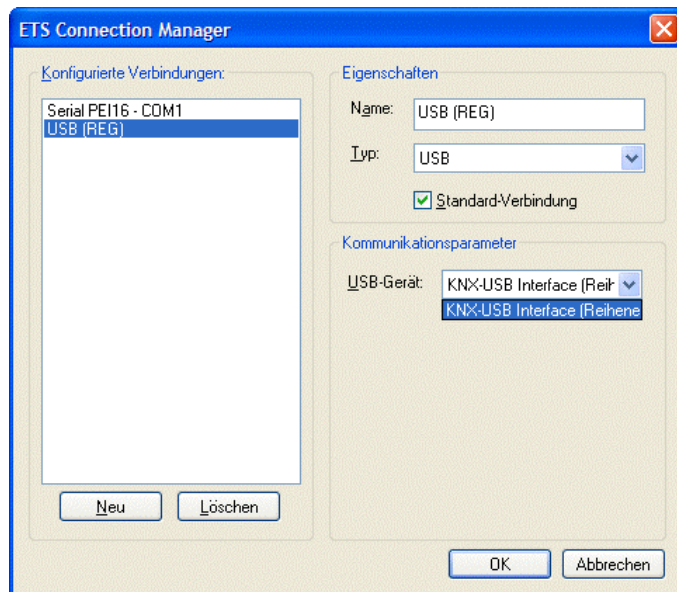
Screenshot serial interface:



This is standard configuration. At active bus connection, try „Test“ to check bus access.



Configuration of the new USB-Interface ES 0109 is done directly in the ETS 3. No additional driver installation necessary.



Since summer 2003 **WALTHER-WERKE** sells the **USB-Interface ES 0105** as DIN-rail mountable device (REG) to EIB-users. This USB-Interface with **existing** drivers is usable for **ETS 2** Version 1.1 b; 1.2 and 1.3 for WINDOWS 2000 and WINDOWS XP.

Since June 2004, **new drivers** are available to allow use of the **existing or new** USB-Interface ES 0105 with **ETS 2 and ETS 3**.

Following procedure for driver installation (4 versions):

- A 1) New installation of the drivers, or:
- A 2) Update of the older drivers (before end of May 2004, just for ETS 2)
- A 3) Installation of the ETS 3 Interface, and (optionally, if wanted):
- A 4) Installation of the ETS 2 Interface

Driver archives on CD, file or Internet:

- Win2000_XP_USB_Treiber.zip
- ETS2_ETS3_Basis_Treiber.zip
- ETS2_Zusatz_Treiber.zip
- Win_XP_USB_HIDFix_Treiber.zip
- USB_Update_komplett.zip (with all 4 archives unzipped)

A 1) New installation of the drivers:

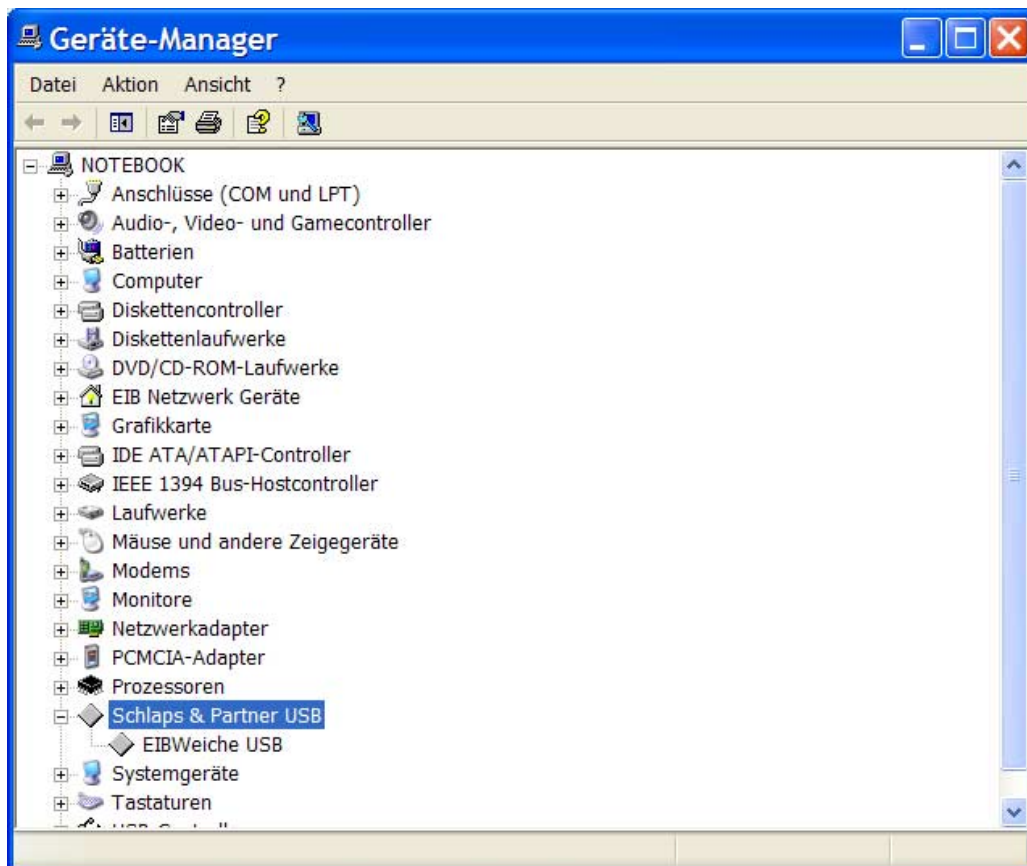
- Extract all files out of archive „Win2000_XP_USB_Treiber.zip“ in an empty directory, e.g. "C:\EIBWeicheUSB"
- Plug in and connect the device
- Hardware detection (assistant)
- Don't let Windows search for the driver, select the driver manually:
- Following steps with WIN XP:
 - "Install from a list or specific location (Advanced)" + "Next"
 - "Don't search. I will choose the driver to install" + "Next"
 - Click on Button "Have a disk", and select the directory of the new driver" (our example in "C:\EIBWeicheUSB") + "Next"
 - After installation select "Finish".

Now the new drivers are installed. In "Driver Details" the driver-files "ew_hid.sys" and "ew_usb.sys" must be listed in the device manger.
If this is the case, the installation was successful.

A 2) Update of earlier drivers (before end of May 2004, only for ETS 2):

- Extract all files out of archive „Win2000_XP_USB_Treiber.zip“ in an empty directory, e.g. "C:\EIBWeicheUSB"
- Plug in and connect the device
- Start the MSWindows Device Manager.
- Double click on the "Schlaps&Partner USB -> EIBWeiche USB" entry
- Select the „Driver“ tab and then „update driver“
- Don't let Windows search for the driver, select the driver manually:
- Following steps with WIN XP:
 - "Install from a list or specific location (Advanced)" + "Next"
 - "Don't search. I will choose the driver to install"+ " Next "
 - Click on Button "Have a disk", and select the directory of the new driver“ (our example in "C:\EIBWeicheUSB") + " Next "
- After installation select "Finish".

Now the new drivers are installed. In "Driver Details" the driver-files "ew_hid.sys" and "ew_usb.sys" must be listed in the device manger.
If this is the case, the installation was successful.



On some WinXP-systems, however, there is no HID-Interface installed, and the "Weiche" is marked with an error in the device manager. In such a case repeat the procedure above, but select WinXP_HidFix" as driver directory

A 3) Installation of the ETS 3 Interface

- Extract all files out of archive „ETS2_ET3_Basis_Treiber.zip“ in an empty directory, e.g. "C:\EIBWeicheUSB\ETS".
- In this directory, run file "Schlaps.exe " (Double-click in Windows explorer)

After configuration in ETS 3 you can use the USB-interface:

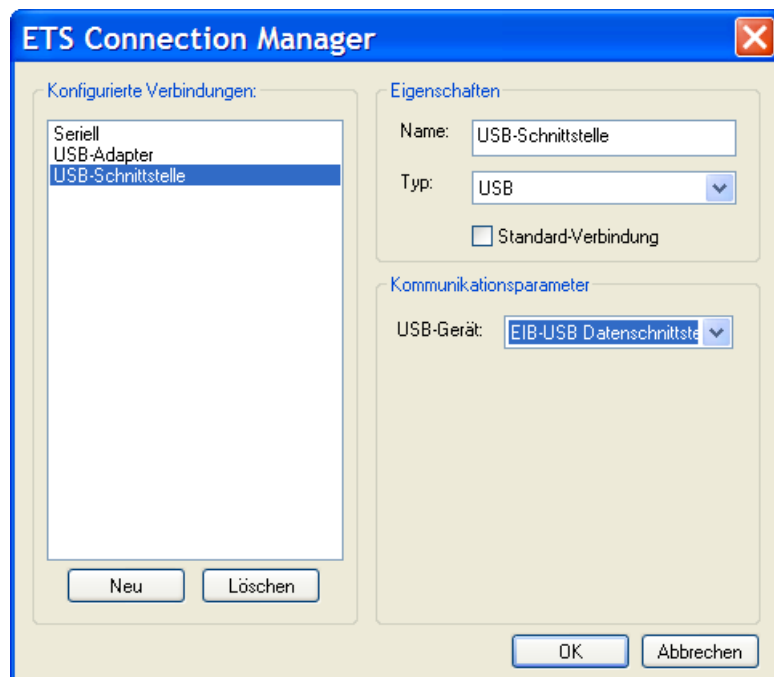
Start ETS 3

Extras – Options – Communication – Interface configuration



Enter name

Choose type



Confirm entries and use USB-interface.

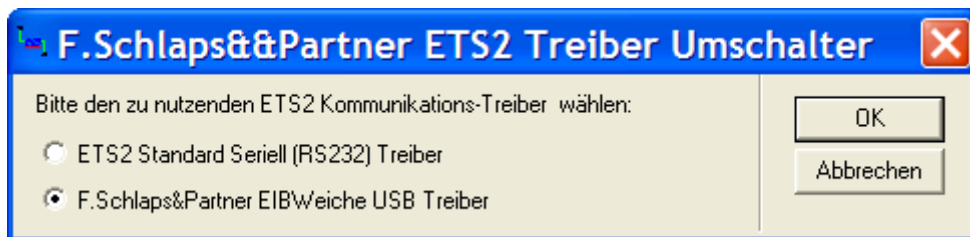
The switch over from USB to serial interface is done in ETS 3 at „Extras – Options – Communication – select field“.

A 4) Installation of the ETS 2 Interface (optionally, if wanted):

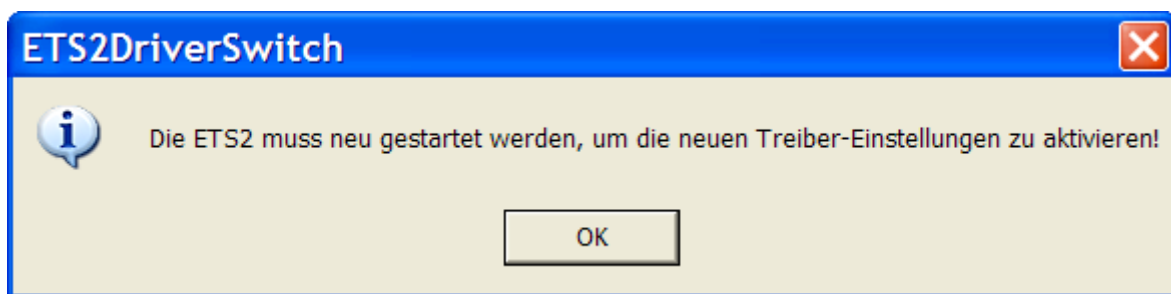
- Extract 3 files out of archive „ETS2_Zusatz_Treiber.zip“ in an empty directory.
- Copy the 3 files into the **ETS 2** – directory (**Attention: Take the right path!**).

To switch from serial interface to USB and back, you will find the program file „ETS2DriverSwitch.exe“ in the archive. This will activate other DLL-drivers.

After double-clicking „ETS2DriverSwitch.exe“, you can select:

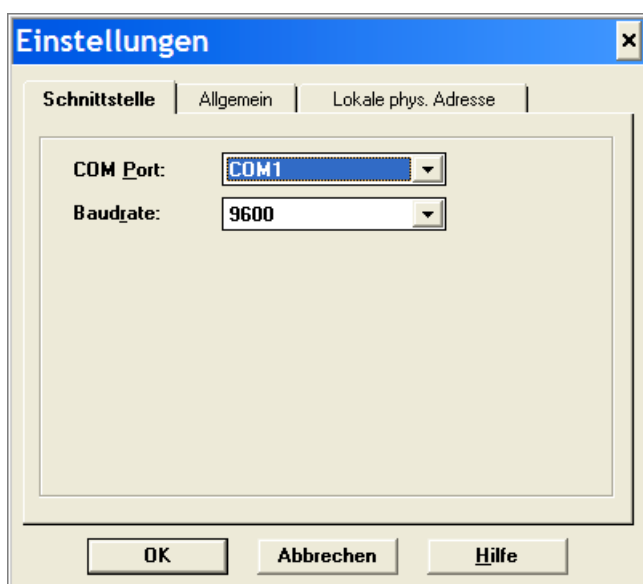


After your selection, you need to restart the ETS 2.



Hint: Link on your Desktop.

At both variations (even with USB) you will see the following interface parameters:



B) Old project with ETS 3 and USB

In the last 10 years you did a lot of ETS-projects. In most of the projects you might have used the serial data interface RS 232 as DIN-rail mounted device. These interfaces are coming from Siemens and are labeled as OEM-product from many suppliers.

How to connect ETS 3 via USB to these installations?

Very simple:

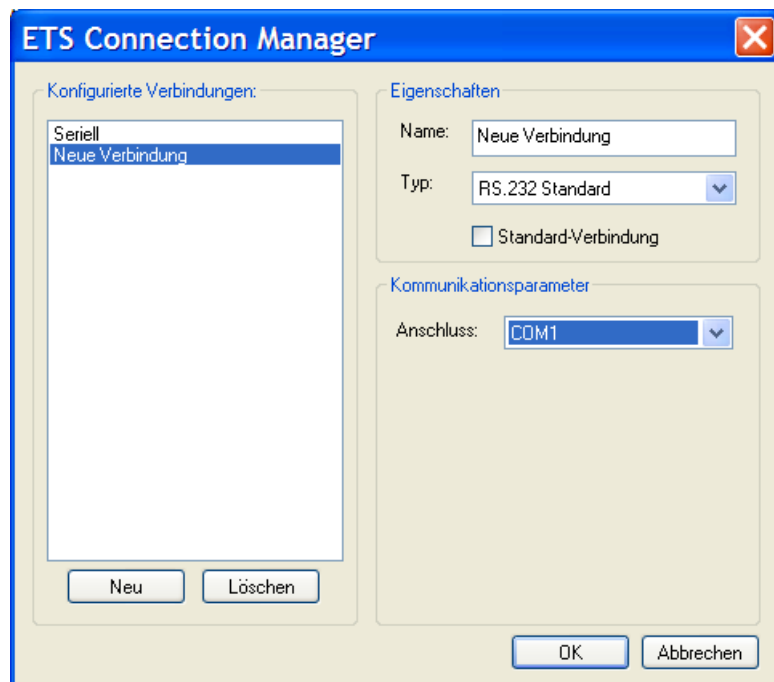
We use the new USB-Serial-Adaptor for EIB/KNX, ES 0106. Just plug it into the existing 9-pole D-Sub-Connector of the serial data interface.



After configuration in ETS 3 the USB-Serial-Adaptor is ready to use:

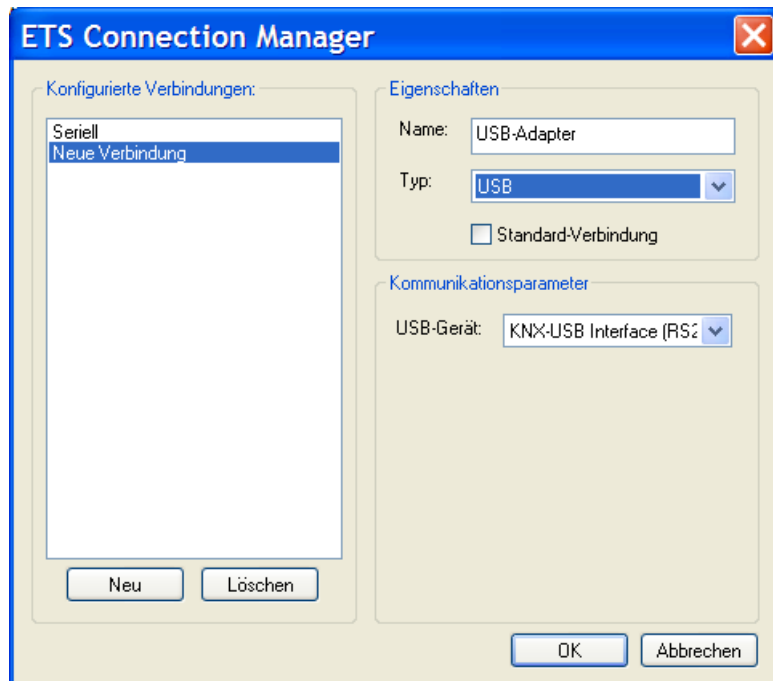
Start ETS 3

Extras – Options – Communication – Interface configuration

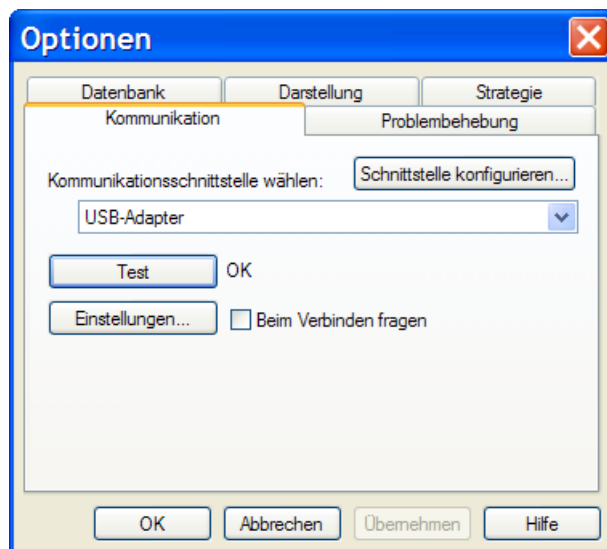


Enter name

Choose type



Confirm entries and use USB-interface.



Attention:

The adaptor is only usable together with the RS 232 interface for EIB/KNX.
Other applications, e.g. programming of phone systems etc. is **not** possible!

C) ETS 3

WALTHER-WERKE offers solutions for USB for the ETS 3:

- USB-Interfaces ES 0105 and ES 0109 as DIN-rail mounted devices (REG): See chapter A 1 to A 3 of this document.
- USB-Serial-Adaptor for serial data interfaces: See chapter B of this document.

D) ETS 2

WALTHER-WERKE offers solutions for USB for the ETS 3:

- USB-Interfaces ES 0105 as DIN-rail mounted devices (REG): See chapter A 1, A 2 and A 4 of this document.

Summary:

Only WALTHER-WERKE offers the complete range

- **New project with ETS 3**
- **Old project with ETS 3 (with existing serial data interface RS 232)**
- **ETS 3**
- **ETS 2**

WALTHER has got it...

More information online: www.walther-werke.de.

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