

# SIEMENS

**A&D SE SP3**  
**Karlsruhe**

Product information

## **AS x88/TM: Linking PROFIBUS-PA**

Var. **V1.01**

Issue: July, 2000

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### Descriptors

TELEPERM M, AS 388/TM, AS 488/TM, PROFIBUS-PA

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### Summary

This product information refers to the extension software packages:

Name	Variant	Issue	Product no. (MLFB)
Linking PROFIBUS-PA to AS x88/TM (Link and Coupler)	V	1.01	6DS5 130-8AA
Linking PROFIBUS-PA to AS x88/TM (only Coupler)	V	1.01	6DS5 130-8AB

### Description:

Ergänzende Systemdoku.	AS x88/TM:	PA-Treiberbausteine	German
Supplern. System Docu.	AS x88/TM:	PA Driver blocks	English

## 1 About this Product

The product information on system software M02.00 / M02.01 remains valid. The following information represents a supplement for the add-on function package "Linking PROFIBUS PA to AS x88/TM".

**Caution:** The system requires AS software version  $\geq$  M02.00 !  
In the case of non-compliance, the add-on function package PA Drivers V1.01 cannot operate.

The delivery comprises:

6DS5 130 – 8AA	6DS5 130 – 8AB
Diskette 3,5" with: PA Drivers and SW protection for AS x88/TM, Documentation in WORD97 format Product information	Diskette 3,5" with: PA Drivers and SW protection for AS x88/TM, Documentation in WORD97 format Product information

The full license allows the linking of PROFIBUS-PA field devices via DP/PA Coupler as well as via DP/PA Link IM157.

The partial license allows the linking of PROFIBUS-PA field devices only via DP/PA Coupler (baudrate 45,45 kBd).

### Information on software protection:

As an add-on package, the PA Drivers are a licensed product. The license of the PA Drivers is related to the license number of the AS x88 system software memory card and can run only within this system. If the software of the PA Drivers does not find the assigned license number, the PA Drivers remains without function.

With incorrect installation of the PA Blocks the following I&C messages may occur:

PA\_TREIB \* S 750

You tried to install more than 32 additional packages in the AS.

PA\_TREIB \* S 751

The licence number of the installed PA driver package does not match with the ID No. of the AS x88/TM.

## 1.1 Extending Documentation

The included product diskette contains all current information which can help you in commissioning the PA Drivers for the AS x88/TM. This information is included in this product information and in the file:

A:\DOKU\PA\_BST\_E.doc I/O Driver Blocks for the Input/Output of Analog and Discrete Values via the PROFIBUS-PA I/O Bus

Please print this file with the configuration information and add it to your AS x88/TM documents. Violation of the described information can lead to severe malfunction of the plant .

If your PC does not feature the appropriate Windows installation, your local SIEMENS sales partner will provide support.

## 2 Commissioning Information

The diskette contains the complete software for operating the PA Drivers for the AS x88/TM.

For the installation, an AS x88/TM memory card version  $\geq$  M02.00 must be available. The installation procedure occurs either via the IBS terminal or with a programming unit with the corresponding MC interface (e.g. PG740).

### 2.1 Commissioning with IBS-Terminal

With the installed "IBS-Terminal" and the commands of the operator control program ASBEDIEN, the IBS-Terminal provides access to all files on the memory card inserted in the AS x88/TM.

### 2.2 Procedure for Installation

#### 2.2.1 Installation with IBS-Terminal

The files listed in the following are located on the included diskette. Copy these files to the directory 'C:\ASBEDIEN' of your IBS-Terminal PC or to the current work directory (in ASBEDIEN.PIF, e.g., C:\TEMP is specified).

Start the program ASBEDIEN.exe (under Windows via ASBEDIEN.PIF, to activate the full screen and deactivate the screen saver mode) on the IBS-Terminal PC connected to the AS x88/TM.

Then, in the command mode, copy the files previously saved on the PC with the following command to the memory card in the AS:

```
<ESC>COPY_TM PABST100.EXE for the full license 8AA  
or  
<ESC>COPY_TM PABST110.EXE for the partial license 8AB  
  
<ESC>COPY_TM PA_TREIB.NL  
<ESC>COPY_TM PA_TREIB.VER
```

The contents of the file `PA_TREIB.INI` must be entered before line "EATASK.386" in the file `STARTER.INI`, contained on the memory card. The modified file `STARTER.INI` must then be copied to the memory card again.

For using the PROFIBUS-PA connection, two modules of the AS x88/TM system software M02.00 have to be changed. For that copy the three files from the directory `A:\M02_00.01` on your PC and transfer these files on the memory card too:

```
<ESC>COPY_TM EATASK.386  
<ESC>COPY_TM FUNC.EXE  
<ESC>COPY_TM VERSION1.TXT
```

**Attention:** The preliminary version M02.00.01 must be installed only, if the issue of the AS x88/TM system software existing on the memory card is  $\leq$  M02.00/M01.06! Up from version M02.01/M01.07 the files from `A:\M02_00.01` must not be installed!

After successful transfer, exit the ASBEDIEN (with Alt-X). Then, please perform the following action:

- reBOOT the AS x88/TM (reset or OFF/ON).

**Caution:** The data transfer is successful only if the command `COPY_TM` terminates without error message and manual intervention (e.g. cancellation with ESC). In the case of an error, the copy procedure must be repeated.

If problems occur during data transfer (frequent disconnection), we recommend to follow the procedure described for the AS software in the product information.

### 2.2.2 Installation with Programming Unit PG740

Before starting the installation activity, please make sure (before withdraw the memory card) an archive exists for the current custom plant and the files to be changed. This will allow to restore the previous software version in the case that unexpected problems occur. Stop the AS, e.g. with STO. Then, switch the AS OFF before withdrawing the memory card!

Copy the files listed under 2.2.1 from the update diskette to an own directory '*name*' of your PG740.

Copy the file `STARTER.INI` from the memory card to the directory '*name*' of your PG 740 (COPY E:\STARTER.INI *name*). The contents of the file `PA_TREIB.INI` must be entered before line "EATASK.386" in this file `STARTER.INI`.

For the installation, insert the memory card into the slot MEM-CARD of the PG740. Then, copy all files from the directory '*name*' to the memory card (either in the File Manager or Explorer or in a DOS box):

```
COPY name\*. * E: /y
```

Finally, insert the upgraded memory card of the AS into the allocated AS x88/TM and reBOOT the AS (power ON).

### 2.2.3 Installation of the PA Driver blocks

The driver blocks contained in the reloadable file `PA_TREIB.NL`, are not present in the system data area of the AS, and are thus not activated automatically. You can load this blocks into your user memory and activate them.

To do this, install your "Commissioning terminal" and transfer the blocks from your memory card to the user memory of your AS using the operation "LA:PA\_TREIB.NL;". The loaded blocks must then be parameterized to the type numbers provided in their application, and activated. You activate the parameter settings in the AS input mode using the input instruction "BT,PA:@;".

Set the desired type numbers of the PA blocks in the parameterization display using the parameters 1, 3, 5 and 7. If this blocks already are existing in the AS, the existing type numbers were accepted. Your parameter settings are accepted using the parameterization input "P,9,1;", and the blocks are stored in the user memory of your AS. The activation procedure can be previously aborted using "P,11,1;". The reloaded file is then no longer present in your AS. However, you can carry out the installation procedure from the beginning.

After successful activation, the user structure and the driver blocks must be re-archived to the memory card, otherwise they will be lost during the next boot procedure.

The installation procedure is described detailed in the user documentation file `PA_BST_E.doc`.