SIEMENS

DESIGO™ S7
Touch Panel S7 TP177
Operating instructions

Building Technologies

Contents

1 About this document

1.1 Revision history

Version	Date	Changes	Section	Pages
_02	**March 2012**	**Password security**	**4.7**	**22**
_01	July.2009	First edition		

1.2 Further documents

Ref.	Document title	Document type	Document number
[1]	Standard device manual "Operator units TP177A, TP177B, OP177B (WinCC flexible)"	Device manual	6AV6991-1DG01-0AA0 (Siemens AI)
[2]	S7 Touch Panel TP177 6FLTPDS7-V1	Data sheet	CM1N9290

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1.4 Target audience

This user's guide targets **plant users** and technical **service staff**. We assume that you have the required system and plant knowledge.

The following descriptions relate to commissioning, basic settings and use of S7 TP177.
A general description is not possible as individual plants and objects may differ greatly. During engineering, the objects and values to be integrated in the plant are determined in accordance to individual plant operator needs.

The following description are intended merely as examples explaining basic functions of the touch panel.

1.5 Document conventions

Display texts:
Texts in **bold print** appear as is on the display, e.g. **Config** or **System**.

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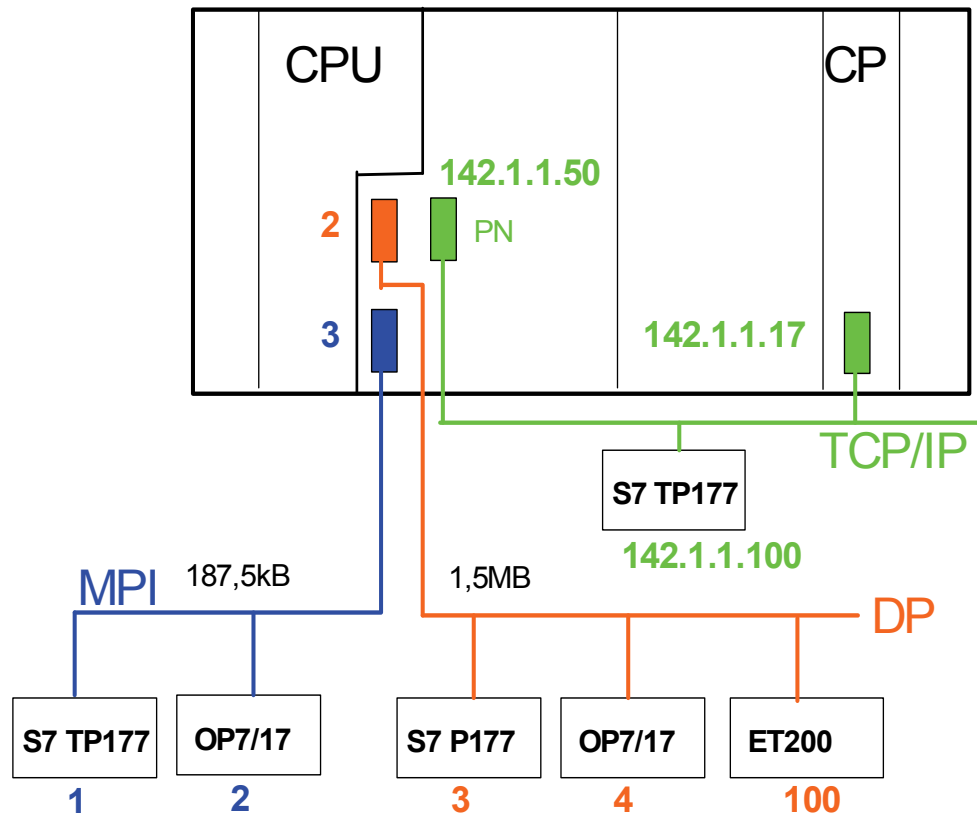30 Mar 2012

2 Connect the S7 TP177

2.1 Power

Power supply: DC 24 V (between DC 18...30 V, protection against voltage reversal).
Power consumption:0.5 A.

2.2 Data connection

TP application range
(MPI/DP/TCP_IP)

The S7 TP177 can be connected to an MPI/DP network (CPU interface) as well as a TCP/IP network (Ethernet CP, CPU interface (PN)).

Default setting
(own address)

|	
MPI	1
Baud rate	187.5 kbps
Highest station address	31
Transfer settings	ETHERNET
IP address	142.1.1.110
Subnet mask	255.255.0.0

When connected to a DP network, the S7 TP177's own DP address must be set via CONTROL PANEL→S7-Transfer Settings→**MPI**, rather than CONTROL PANEL→S7-Transfer Settings→DP.
Opening a connection automatically adjusts the baud rate.

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2.3 Switch on

After switching on the S7 TP177, the DESIGO S7 start screen opens after a few seconds.

Touching **Exit** closes the start screen (and opens the Control Panel); touching **Start** reopens the start screen.
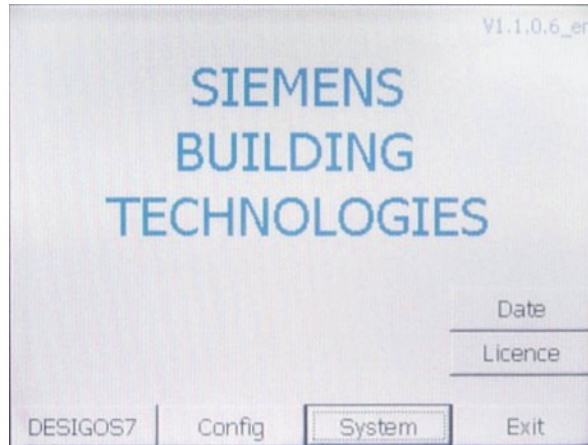

2.4 Commissioning

You must first parameterize the configuration mask to commission the S7 TP177. (Config menu, see 4.4)

Restart the device after each change to the AS software (Exit button or REBOTT in the Control Panel via commands OP > DEVICE > REBOOT).

Update and reaction times for touching depend on the CPU (faster with a CPU400 than a CPU300).

3 Operate the S7 TP177

3.1 Operating elements and display
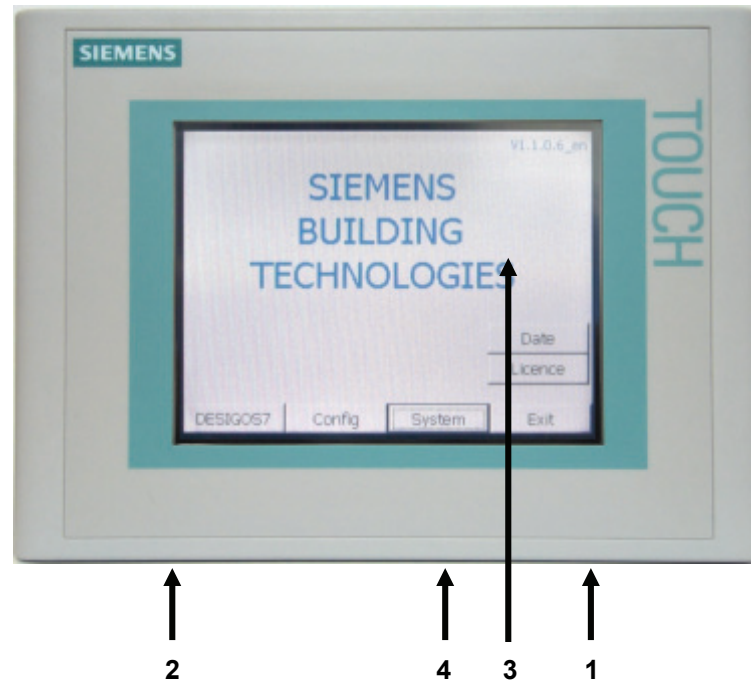
1 Connection (terminals) to power (DC 24 V, 0.5 A).
2 Communications interface (RJ45).
3 Display.
4 MPI/DP connection.

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3.2 Menu

Start window "DESIGO S7" (4.1)	Date window (4.2) (ADMIN only)	Time of day Date	Drop-down list box Drop-down list box			
		Home OK.	Return to Start window. Apply entry.			
	License window (4.3) (Admin only)	MM-ID / serial no. License string. Dispatch note no.	Complete with numeric keyboard (3.5). Complete with numeric keyboard (3.5). → License = SIMATIC CPU runtime protection license.			
	DESIGO S7 (4.8)	**Plant,** (4.8) e.g. "AHU 10" (scroll if plant has too many rows).	**Partial plant** (4.9), e.g. "Extract Air Fan" (scroll if partial plant has too many rows).	**Data points** (4.10), e.g. "Command".	**Data point properties** Examples: • Alarm (disturbance) (5). • Field in blue font. • Locked field (gray). • Text entry field. • Numeric entry field. • Selection entry field.	• "!!!" Designates faulty elements (with alarm). • Value display; field cannot be edited. • Login required (3.4); after using logout. • Letter keyboard appears after touching (3.4). • Numeric keyboard appears after touching (3.5). • Dropdown list box appears (3.5).
		Home Login (3.4) Res Filter Off/On (5) Esc OK	Home Login Res Filter Off/On Esc OK	Home Login Res Filter Off/On Esc OK	Home Login Res Filter Off/On Esc OK	Return to Start window. Log in as authorized user (3.4). Reserve, no function. Off: Show all; On: Show only elements with alarm (5). Return to next higher level. Apply entry.
	System (4.5)	Calibrate touch. System control. Contrast + / –	Touch crosses To Control Panel 0...100 in 10% increments			
		Home Reserve OK	Return to Start window. Reserve, no function. Confirm entry.			
	Config (4.4)	Communications Language User	Configure DE / EN / FR (system language) Manage passwords.	→ You can also query the firmware version in the "Language" window.		
		Home OK	Return to Start window . Apply entry.			
	Exit	Return to Control Panel (Windows CE level)				
Control Panel	Restart the S7 TP177 from here among other functions.					

The functions are described in detail in the following sections (refer to the section numbers in brackets).

3.3　General system buttons

OK.

Confirm and finish entry (numeric or selection).

ESC

The ESC button offers the following functions:

- Undo.
  Undoes field entries provided they have not yet been confirmed with OK.
  (Password entry and numeric entry).
- Go back one level.

Scroll vertically

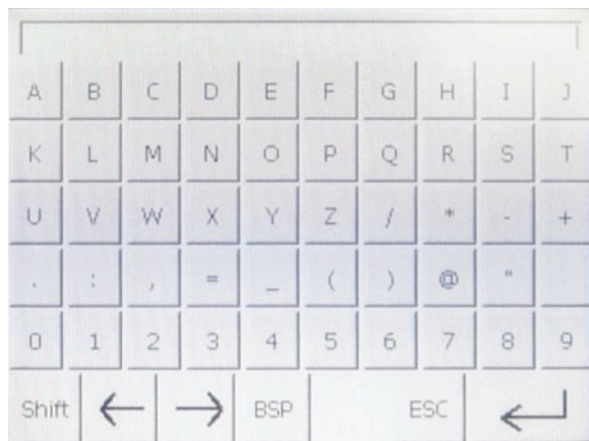Scroll if the display is larger than the window.

3.4 Enter login

Enter login

The login dialog box opens when you touch **Config** in the Start window or **Log on** in the DESIGO S7 windows:
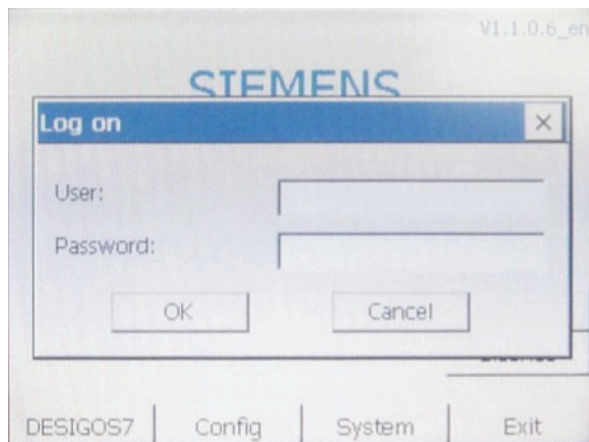
The following keyboard is displayed when you touch the **User** or **Password** entry fields:

Enter user and password and apply using the bottom right arrow.
Touch **OK** to confirm the Login dialog box.

Correct your entry using the **BSP** button.
ESC allows you to return to the Login dialog box without entering any data.

Note:
Login locked

If you attempt to log in using the wrong password three times in a row, login is locked (user no longer is authorized).

This is a system function. If the Administrator user (DES7/999) is moved to group "Unauthorized", a second administrator (ADMIN/2008) may be used to reauthorized the user (see Section.4.6, "Password and user administration").

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3.5   Enter values

General

You must first log in to be able to operate values:
Log in either via **Config** in the Start window or **Login** in the DESIGO S7 windows
("Release OP" Yes / No.

Procedure

You can enter TP values or states for control in the entry fields.

Proceed as follows:
- Login via the **Login** button as needed.
- Enter the corresponding value. After field engineering, enter values as:
  - Numeric entry (via displayed keyboard).
  - Value entry by selection (via dropdown list box).
- Click **OK** to confirm your entry.
- Cancel wrong entries via **ESC** (numeric entries only). The original value is then
  reentered automatically in the field. Repeat your entry using the correct value
  and confirm with **OK**.

Examples:

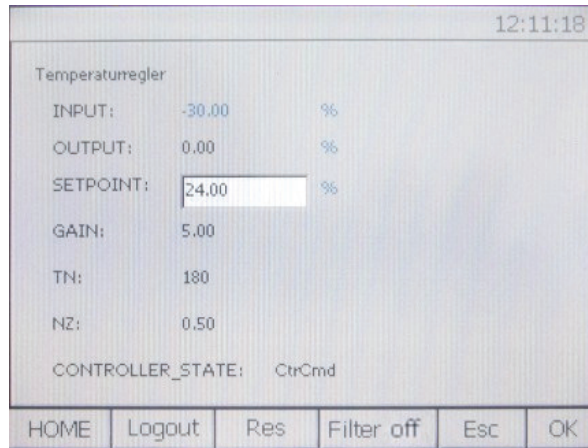No operation possible
(gray fields, gray font)

If you are not logged in, the entry field (SETPOINT) is grayed. Operation is not
possible.

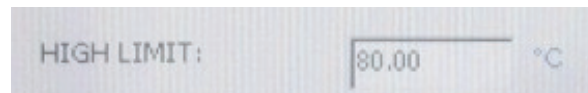Log in first and enter your user name and password.
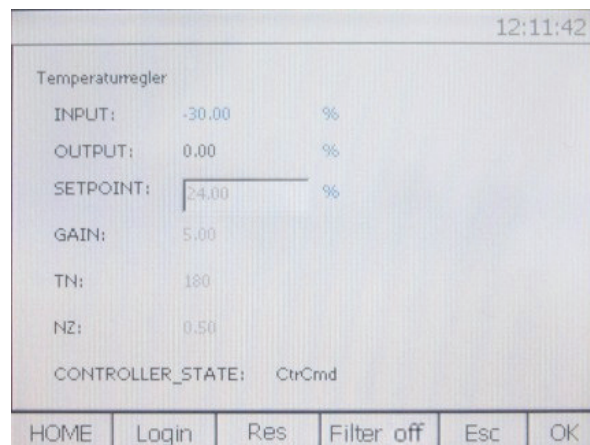
Operation possible

You are logged in, the **Login** button is now a **Logout** button.
The entry field (SETPOINT) is brighter and can be operated.

Enter numeric values (limits, setpoints, control parameters etc.)

When you touch a **numeric** entry field, e.g. upper limit of measured value (AI) ...

... the following keyboard opens.

Type in the value and apply using the bottom right arrow.
Touch **OK** to confirm the entry.

Correct your entry using the **BSP** button.

ESC allows you to return to the data point dialog box without entering any data.
You must still confirm the window with OK.

Enter selection values (desired stage, operating mode, …)	When you touch a **symbol** entry field (arrow button right), a state text list opens: (Here **Manual operating mode**).
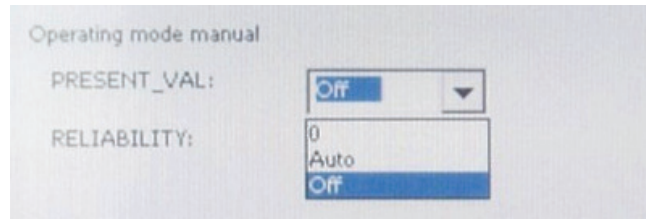
Select the desired text and confirm with **OK**.

When the state text list is open, **you must confirm the window with OK** even if you do not select a text.

3.6　Limit value check for entries

Numeric entry fields	Limit values can be set for numeric entry fields. The entered values are applied only if they are within the set limits. The value in the field remains unchanged if you enter an illegal value.
	If operating privileges are set, the privileges are checked and operation may be refused.
	Limit value checks are not carried out on the measuring range of the data point.
Selection entry fields	No limit value check is carried out on selection entry fields. A check is carried out, however, if operating privilege "Manual" is set.
	The number of stages for switching commands may be limited in the selection list depending on the overall setup (Num of Stage).

3.7　Alarm handling

Proceed as follows if a plant is faulty (queued alarm, "!!!", or several alarms visible):

- Move down in the plant hierarchy (Plant > Partial Plant > Data point) to locate the faulty element.
- Remove the cause of the plant fault.
- Check to ensure the alarm message on the TP177 is gone.

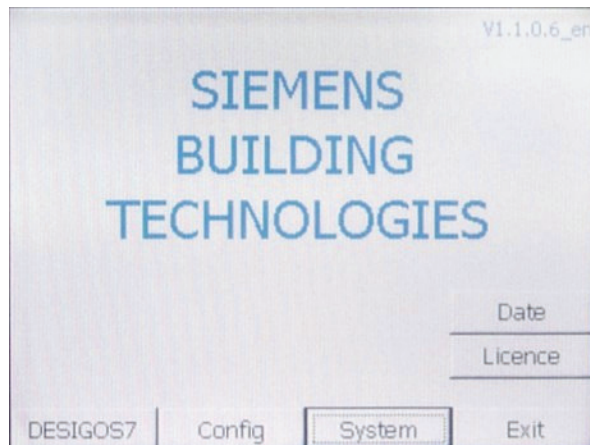Each partial plant (Typical) has a "Common Alarm" window with the following entry fields:

```
ACKNOWLEDGE        ---/ Yes
RESET              ---/ Yes
```

An "AckTra" is generated here (acknowledge transition).
The alarm can be acknowledged with YES or reset if the state is "---".

4　System functions

4.1　Start window

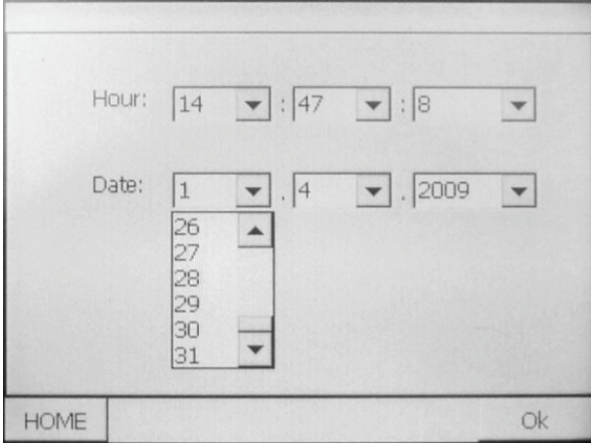|	
Config "Administrator" password required	Use this button to open the dialog box to enter user name and password, language, and the MPI/DP/TCP address of the partner. (Section 4.4).
System "Administrator" password required	Use this button to open the System window allowing you to enter other settings. (Section 4). (Calibrate touch, Contrast, Date/Time of TP, Control Panel).
DESIGO S7	Use this button to open the window to operate the DESIGO S7 plants (plant overview). No password required, the graphics can only be monitored. (Level 0) (Section 4.8).
Date window "Administrator" password required	Use this button to open the window to operate the AS time and date. (Section 4.2).
License window "Administrator" password required	Use this button to open the runtime protection Operation/Monitoring. (Section 4.3).
EXIT	Return to the standard Control Panel *) of the S7 TP177 and restart the panel. (You must restart after each change to the CPU).
ADMIN password	The default "Administrator" password is **DES7/999**. Can be changed. (Section 4.6).
	*) As a rule, the system function (Control Panel, taskbar) of the DESIGO S7 TP177 corresponds to that of the Simatic TP177B. For this reason, please refer to the operating manual for the SIMATIC TP177B [1].

4.2 Date window
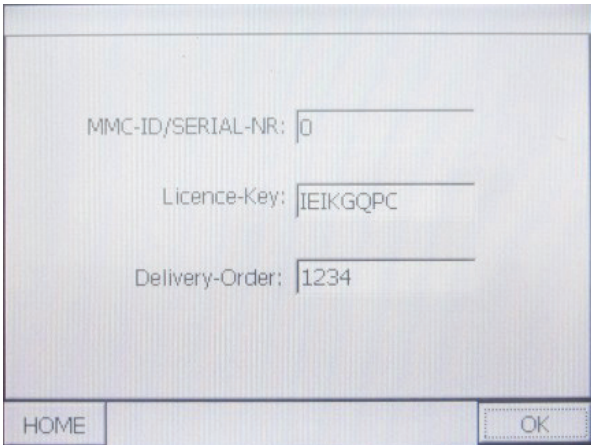
Set Hour / Date	Touch fields to operate, select values from list and confirm with OK.
"Administrator" password required	This time of day / hour appears in all DESIGO S7 windows.
HOME	Return to the Start window.
OK	Use this button to confirm and apply your entries.

4.3 License window

Enter license	Enter the runtime license protection for SIMATIC here.
"Administrator" password required	Touch the fields to display a keyboard. Enter the values (dispatch note) or string (license key) and confirm with OK.
	The MMC-ID or serial number is displayed.
HOME	Return to the Start window.
OK	Use this button to confirm and apply your entries.

4.4   Configuration

Touch **Config** in the Start window to open the configuration window. (Provided you are logged in).

CPU No.1 and TCP/IP are selected per default.

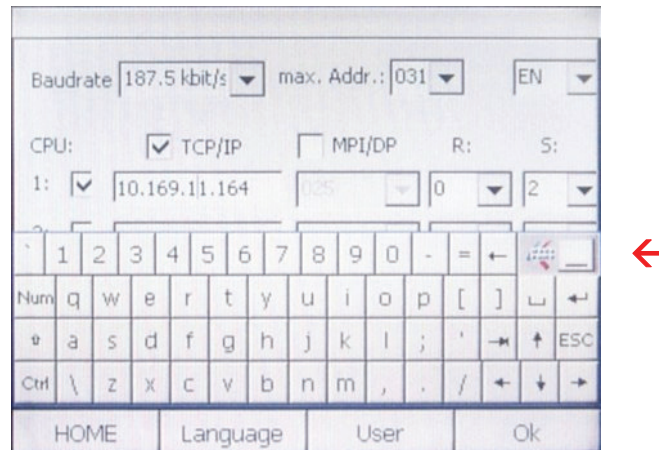Touch a numeric field to open the numeric keyboard:

Enter address and rack number and confirm with **OK**.

Move up the keyboard to parameterize CPU 2,3,4 as needed.
Use this button to do this:

Set CPU parameters

You can parameterize up to four CPUs. Two communication protocols are possible (MPI/DP or TCP_IP). (No mixing please).

Procedure:
- Select protocol (MPI/DP or TCP/IP).
- Select one or several CPUs (1 2 3 4) (no gap).
- Set rack number (R) and slot number (S) of the CPUs.
- Enter the CPU address. (The keyboard is displayed as soon as you touch the fields).
- Set the baud rate and highest member address for MPI/DP.
- Select window language (should be the same as system language): (Section 4.6). DE: German; EN: English.
- Select OK to apply and save your configuration settings.

HOME

Return to the Start window.

Language
"Administrator" password required

Use this button to change to the system language window (menus). (See chapter 4.6)

User
"Administrator" password required

Use this button to open the window to enter user names and passwords. (Section 4.6).

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OK   Use this button to apply your configuration entries.

Default configuration   Number of CPUs   1
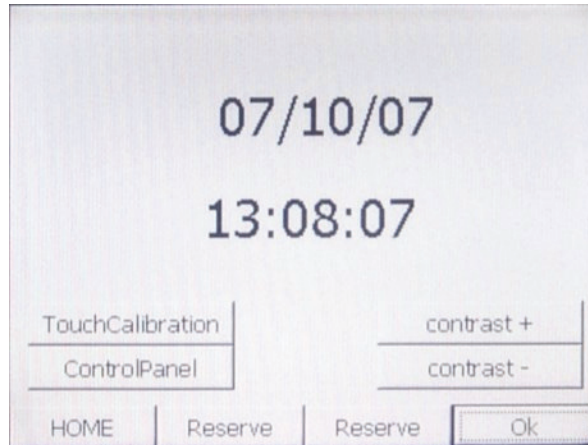   MPI/DP   2
                                Rack   0
                                Slot   2
                                Baud rate   187.5 kbps
                                Highest station address   31
                                Language   German

4.5 System

Touch Calibration	Select this button and touch cross five times (center and four corners), then touch the display to save the settings. Calibration is needed if you want to operate very small fields. This setting is lost after power failure.
Contrast +, Contrast -	Touch Contrast + or Contrast- as many times as needed until the desired contrast is achieved. This setting survives power failure.
Control Panel	This button takes you to the Control Panel. See standard device manual "Operator unit TP177A, TP177B, OP177B (WinCC flexible)" [1]. You can e.g. set the communications protocol and the TP's address with the "Transfer" button. These settings survive power failure.
HOME	Return to the Start window.

Time/Date	Set the system time: **(Not AS Time/Date)**
	• Touch Date and enter the date via the keyboard.
	  E.g. 12 February 2007 → 12.02.07
	  Apply with **Return** and save with **OK**.
	• Touch Hour and enter the time via the keyboard.
	  E.g. 16 hours 52 minutes 22 seconds → 16:52:22
	  Apply with **Return** and save with **OK**.
	
	These settings are lost after power failure.

OK	Use this button to apply and save date and time.

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4.6   Language (menu)
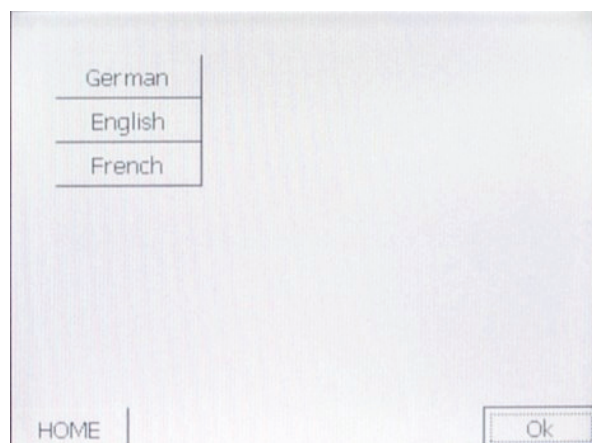
General	This setting is lost after power failure.
	Default language: German.
Set Language	Touch the desired language and confirm with **OK**.
	The system language should be the same as the configured language.
HOME	Return to the Start window.
OK	Use this button to apply the selected language.

4.7　Password and user administration

A		Group (1)	5
	* * * * * * * *		5
B	* * * * * * * *	Group (2)	5
C	* * * * * * * *	Group (3)	5
D	* * * * * * * *	Group (4)	5
E	* * * * * * * *	Group (5)	5

HOME　　　　Language　　　　Ok

General

A password, group and logout time are assigned to each user. Group9 (SICX and ADMIN) has the highest rights and Group1 the lowest. (See next page).
Users "SICX/Group(9)" and "ADMIN/Group(9)" are administrators. Group(0) (view only) does not need to be parameterized. This is the default group, active after logout time is expired, if DESIGO S7 windows were opened without login, or if a user logs out via the **Logout** button. Groups (1) to (8) correspond to the different operating levels.

The user name can be between 1 and 40 characters.
The password must be between at least 3 and max. 24 characters. (No blanks).
SICX can reassign the user to his/her group if a user (A to H) was moved to group "Unauthorized" (see Section 2.4). (Group (1) to (8)).
If SICX was moved to group "Unauthorized", ADMIN can reassign the user (Group (9)).
If ADMIN is moved to "Unauthorized", ADMIN can no longer be reauthorized.
In this case, you must reload the firmware (WinCC flexible or memory card).

To operate fields:
Double-touch to display the keyboard or a selection list.
Enter values, numbers or assign a group and confirm with OK.

HOME

Return to the Start window.

Language
"Administrator" password required

Use this button to change to the system language window. (Section 4.6).

OK

Use this button to apply your entries to the user window.

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Assign password level / operating privileges

The following password levels exist on the S7 TP177.

Group	User / Password	Privilege	Comments
0	Logout	View only.	Touch "Logout" in DESIGO S7 window
1	A/111	No parameter affected	
2	B/222	Release OP (AO,BO,MO,AV,BV,MV) Value OP (AO,BO,MO,AV,BV,MV) Acknowledge (CMN_ALM) Reset (CMN_ALM)	
3	C/333	Low Limit (AI,AO,AV) High Limit (AI,AO,AV) Neutral Zone (AI.AO,AV) Setpoint (CTR) Present Value (AVOP,BVOP,MVOP) SWI_2P (all R/W parameters) SWI_2PH (all R/W parameter) CHAR (all interpolation points) HCRV, HRA (all R/W parameters) KICKFNCT (all R/W parameters) CONT_4ST (all R/W parameters) EVT_DATE (all R/W parameters EVT_WDAY (all R/W parameters)	
4	D/444	SP_SUPPLY (all R/W parameters) CAS_CONT (all R/W parameters)	
5	E/555	No parameter affected	
6	F/666	No parameter affected	
7	G/777	No parameter affected	
8	H/888	No parameter affected	
9	DES7/999	Operate all including system function (password, license, TP time, ...).	
9	ADMIN/2008	Same as DES7; used to reauthorize DES7 as needed.	Read-only group.

Note   All operating levels include the operating privileges of all lower levels.

STOP **Important**   The above default passwords are assigned upon delivery.
As they appear in the documentation, they are unsecure and must therefore be changed during commissioning.

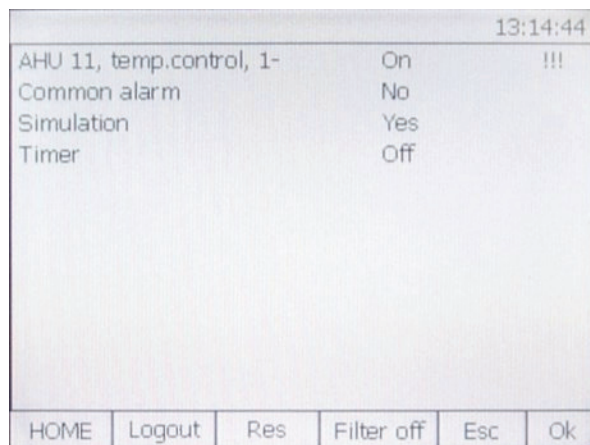Your IT department sets the rules for secure passwords.

4.8　Plant overview window

General

The plant overview window displays all plants upon start (**DESIGO S7** in Start window). You can monitor and operate all plant objects from this window. In addition, communications problems and AS time are displayed in a message. AS time can be updated and aligned hourly upon each start of DESIGO S7 Control.

Design

Only the first 11 rows are displayed; any other lines must be operated by scrolling vertically.

General

The descriptions below apply to all DESIGO S7 windows.
Button **Filter off/on** is irrelevant for data point windows.
RW and **RO** mean:
Read-**w**rite and **r**ead-**o**nly.

Columns

Column 1:　Plant name clear text.
　　　　　　　Depends on the pixel size (max. 32 characters).
　　　　　　　May be cropped.
Column 2:　Setpoint or desired stage.
　　　　　　　(Number of characters depends on pixel size; text may be cropped).
Column 3:　Fault identification (!!!)

HOME

Return to the Start window.

Logout / Login

This button allows for changing the operating privileges to Group 0 (Logout) or Group 1 to 9 (Login).
If "Login" is displayed, a keyboard appears to enter user name and password. After confirmation, the button label changes to "Logout". If "Logout" is displayed, touching changes the operator privilege to Group 0 and the button label returns to "Login".

Res

This is a Reserve button that opens an empty window if this type of window and link to WinCC was engineered flexibly and downloaded in the TP. This button can be used only **for one single window reference**.

Filter off/Filter on

This button allows you to select if all plants/levels should be displayed (Filter off) or only faulty ones (elements with queued alarm) (Filter on).

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ESC	This button allows you to return to the previous window. There is no button to go to the plant overview *(you ARE in the plant overview).*
OK	Use this button to apply your entries.
Help and Error Code	Use this button to change to the Help window. If communication between the TP and AS is faulty, or if the configuration window contains faulty parameters, an error ID is displayed. The ID's meaning is available in the Help window. (Section 5).
	Button **Help** and Error ID appear in the message row only in the event of an error.

4.9   Partial plant overview window

General

The partial plant overview window shows all partial plants of a plant.
You can monitor and operate all partial plants of this plant from this window.

Design

Only 11 rows are displayed; any other rows must be operated by scrolling vertically.
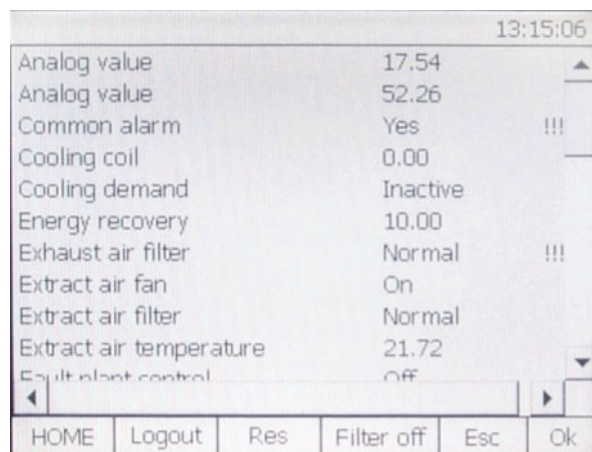
Columns

Column 1:   Partial plant name clear text.
            (Depends on the pixel size (max. 24 characters).
            May be cropped.
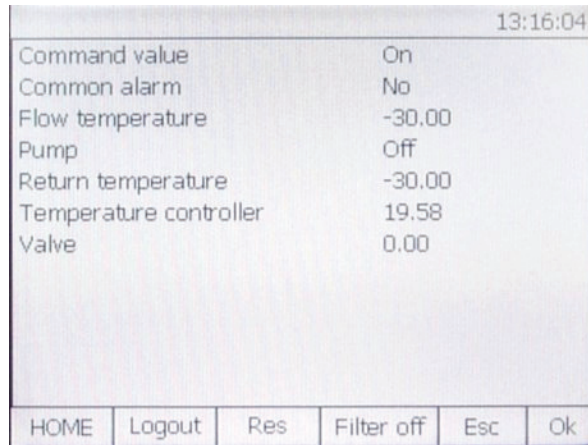Column 2:   Setpoint / Desired stage.
Column 3:   Fault identification (!!!)

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4.10   Block overview window

General   The block overview window shows all blocks of a partial plant.
                     You can monitor and operate all blocks of this partial plant from this window.

Design   Only 7 lines are displayed at a time.
                     Up to 11 lines can be displayed, the rest being accessible by means of a scrollbar.


```
                                        13:16:04
Command value               On
Common alarm                No
Flow temperature            -30.00
Pump                        Off
Return temperature          -30.00
Temperature controller      19.58
Valve                       0.00




HOME   Logout   Res   Filter off   Esc   Ok
```

Columns   Column 1:   Block name clear text.
                                  (Depends on the pixel size (10 to 24 characters).
                                  May be cropped.

                     Column 2:   Setpoint, actual value or desired stage.
                                  (Number of characters depends on pixel size; text may be cropped).

                     Column 3:   Fault identification (!!!)

5 TP 177 error messages

General

The S7 TP177 is based on the SIMATIC TP177B; for this reason, standard system messages are not described here.

Technically specific error messages in excess of standard error message, however, are described here.

Error Code: 0x 00000012	Help		12:02:42
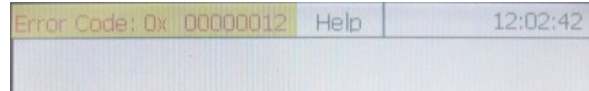
Column meaning

Error Code :
0x 00130012
Help

In the event of an error, an error ID appears in the message row for each configured CPU.
Use this button to change to the Help window.
Help is displayed only in the message row if there is an error.

Note

The most common error messages have ID **12** (faulty configuration or duplicate address in network) and **13** (DB not loaded or wrong DB).
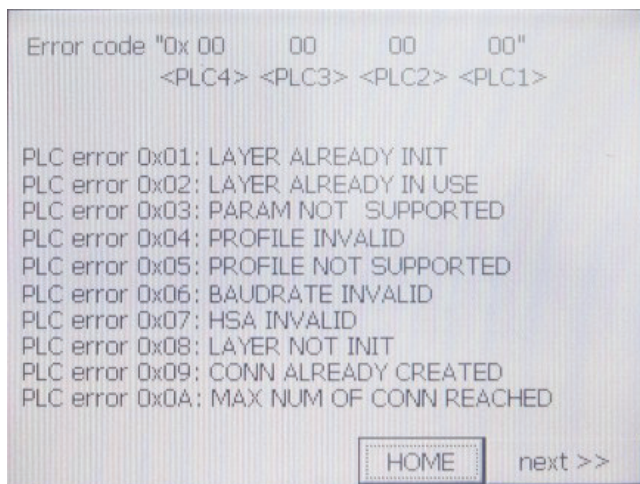
Example : 0x 00130012 means
– CPU1 not configured correctly.
– DB1 or data point DB missing in CPU3.
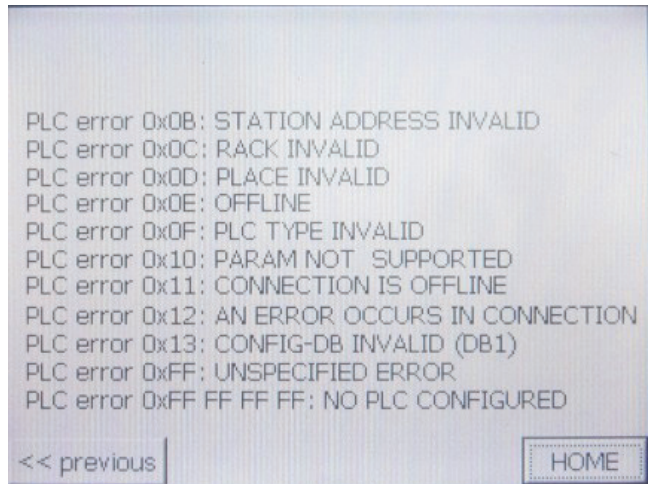
Special feature

Communications errors are signaled only after ca. 1 minute due to the set "Time_out" of the TCP/IP protocol.
The same is true when you touch **Help**.

Help1   Help2

Help1:
```
Error code "0x 00    00    00    00"
            <PLC4> <PLC3> <PLC2> <PLC1>

PLC error 0x01: LAYER ALREADY INIT
PLC error 0x02: LAYER ALREADY IN USE
PLC error 0x03: PARAM NOT  SUPPORTED
PLC error 0x04: PROFILE INVALID
PLC error 0x05: PROFILE NOT SUPPORTED
PLC error 0x06: BAUDRATE INVALID
PLC error 0x07: HSA INVALID
PLC error 0x08: LAYER NOT INIT
PLC error 0x09: CONN ALREADY CREATED
PLC error 0x0A: MAX NUM OF CONN REACHED

              HOME    next >>
```

Help2:
```
PLC error 0x0B: STATION ADDRESS INVALID
PLC error 0x0C: RACK INVALID
PLC error 0x0D: PLACE INVALID
PLC error 0x0E: OFFLINE
PLC error 0x0F: PLC TYPE INVALID
PLC error 0x10: PARAM NOT  SUPPORTED
PLC error 0x11: CONNECTION IS OFFLINE
PLC error 0x12: AN ERROR OCCURS IN CONNECTION
PLC error 0x13: CONFIG-DB INVALID (DB1)
PLC error 0xFF: UNSPECIFIED ERROR
PLC error 0xFF FF FF FF: NO PLC CONFIGURED

<< previous                      HOME
```

6 Install DESIGO S7 firmware

SIEMENS

Information sheet
SBT DESIGO S7 X V1.2

You can extend the standard WinCC project of the DESIGO S7 TP177. (Free window, message protocols, etc.). To do this, you must install DESIGO S7 X firmware on the development machine. You can change the DESIGO S7 WinCC project and transfer to a DESIGO S7 TP177 after installing the firmware.

You can also upgrade the DESIGO S7 TP177 to the latest firmware version.

Important

You cannot convert *SIMATIC TP177B* to DESIGO S7 TP177.

You can load a DESIGO S7 WinCC project (standard or extended) to SIMATIC TP177B, but you cannot open the plant overview.

SIMATIC TP177B can be updated to DESIGO S7 TP177 only via the DESIGO S7 Hotline in Karlsruhe, Germany, or in Zug.

6.1 Setup contents

Extensions for WinCC flexible ES
Config Control
DESIGO S7 Control
Date/Time Control
License Control

Extensions for WinCC flexible Runtime
Config Control
DESIGO S7 Control
Date/Time Control
License Control
Modified S7Channel-Dll for TP177

Extensions ProSave
Modified S7Channel-Dll

Extract file **Lieferung_V1.2.zip** to the development machine.
The following folders and files are created:
SETUP (Setup Script)
FLEXIBEL_TEST_PROJEKT (WinCC project)
Information sheet_v1.2.0.0.doc

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6.2   Set up on your development machine

Prerequisite:
- WinCC flexible 2008 + SP1 + Hotfix3 installed.

Start *Script Setup.exe* from `Lieferung_V1.2\Setup\Disk1`.

After the script is executed (a few seconds), all required dll and xml files are copied to the development machine at the following location:
C:\Program Files\Siemens\SIMATIC WinCC flexible\WinCC flexible 2007\Transfer\1.3\XP177B

You can now load the standard DESIGO S7 WinCC project or an extended project to the DESIGO S7 TP177.

6.3   Load WinCCflexible project

You can now extend project **DesigoS7_14.hmi** and transfer the data to S7 TP177.
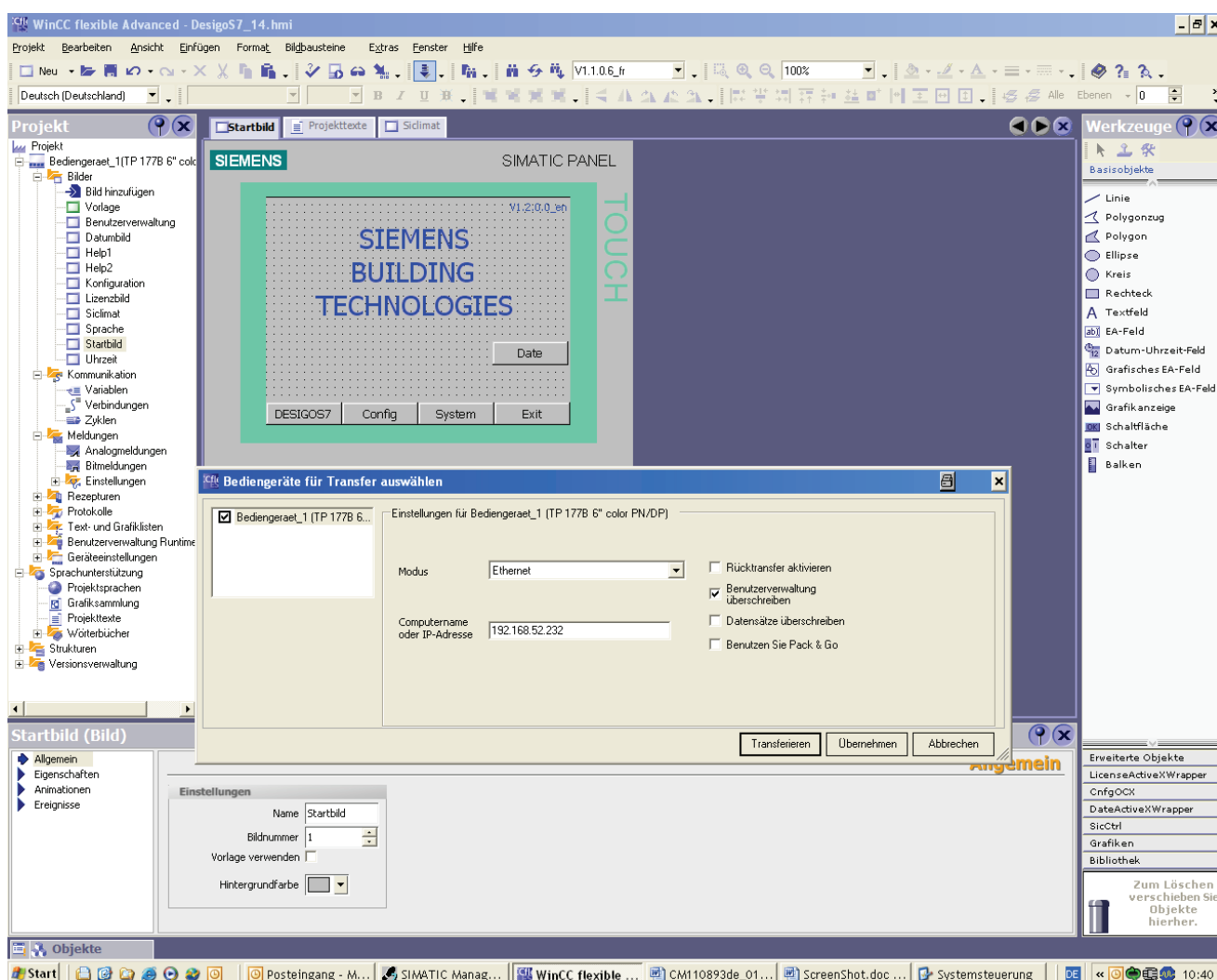
<table>
<tr><td>Important notes for
reengineering:</td><td>If an engineered connection was loaded in an extended WinCC project, the S7
TP177 no longer works, if the WinCC project is transferred without connection.
This is a system function.</td></tr>
</table>

Important notes for reengineering:

If an engineered connection was loaded in an extended WinCC project, the S7 TP177 no longer works, if the WinCC project is transferred without connection. This is a system function.

Loading the standard DESIGO S7 WinCC project does not solve the problem.
The following solutions are available:
- **Load the project with at least one connection.**
- **Execute "RESTORE".**
- **Clear/reset the S7 TP177, install the DESIGO S7 firmware on the S7 TP177, and reload the DESIGO S7 WinCC project.**

6.4 Install DESIGO S7 firmware / upgrade TP 177B

You can upgrade a DESIGO S7 TP177 or repair it in some cases.

Prerequisites:
- WinCC flexible 2008 + SP1 installed.
- Setup of DESIGO S7 firmware started successfully. (Section 6.2).

Prepare the panel
- You must first upgrade storage memory on the device. To this via "Control Panel" → "System" → "Memory".
- Move the scrollbar so that ca. 4000 KB "total storage memory" is available.
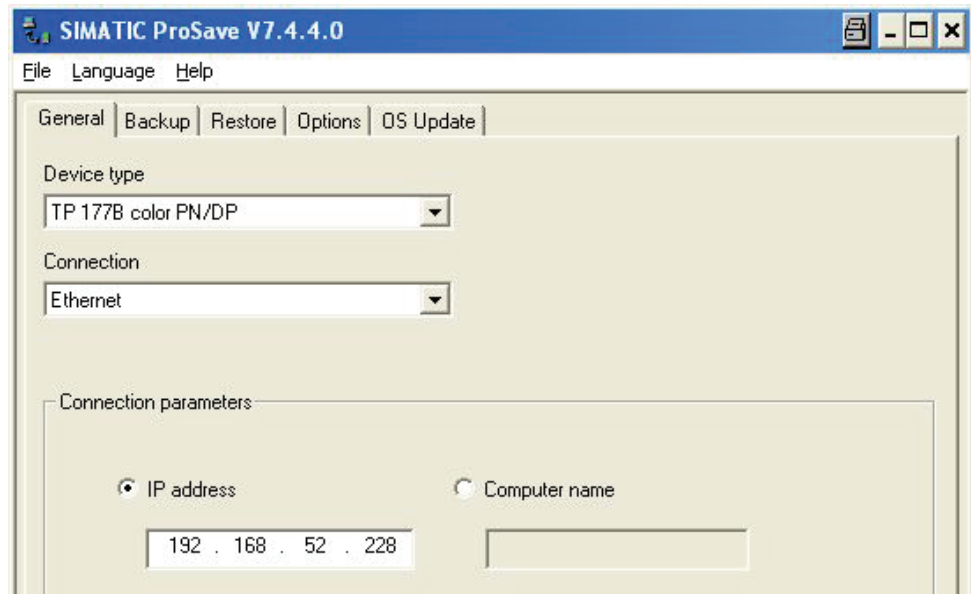- Then set the communications protocol via "Control Panel" → "Transfer". (Ethernet or MPI).

Installation using ProSave

In Windows: `Start/Simatic/ProSave`
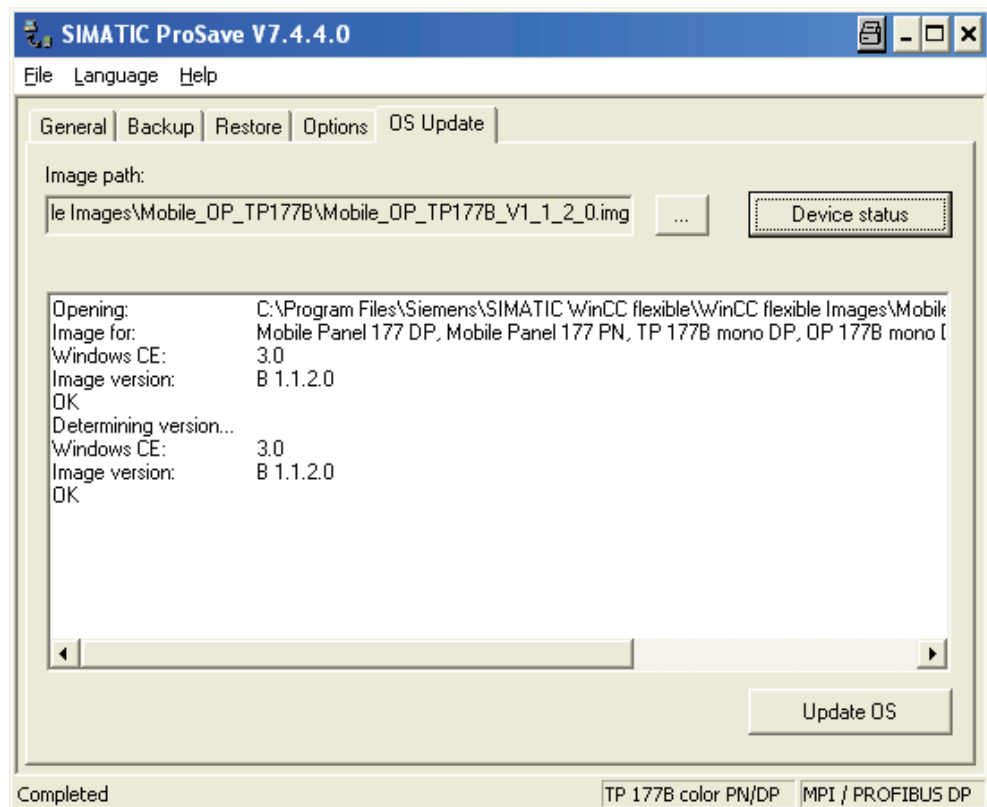The example below uses an MPI connection, but it also works on TCP/IP:
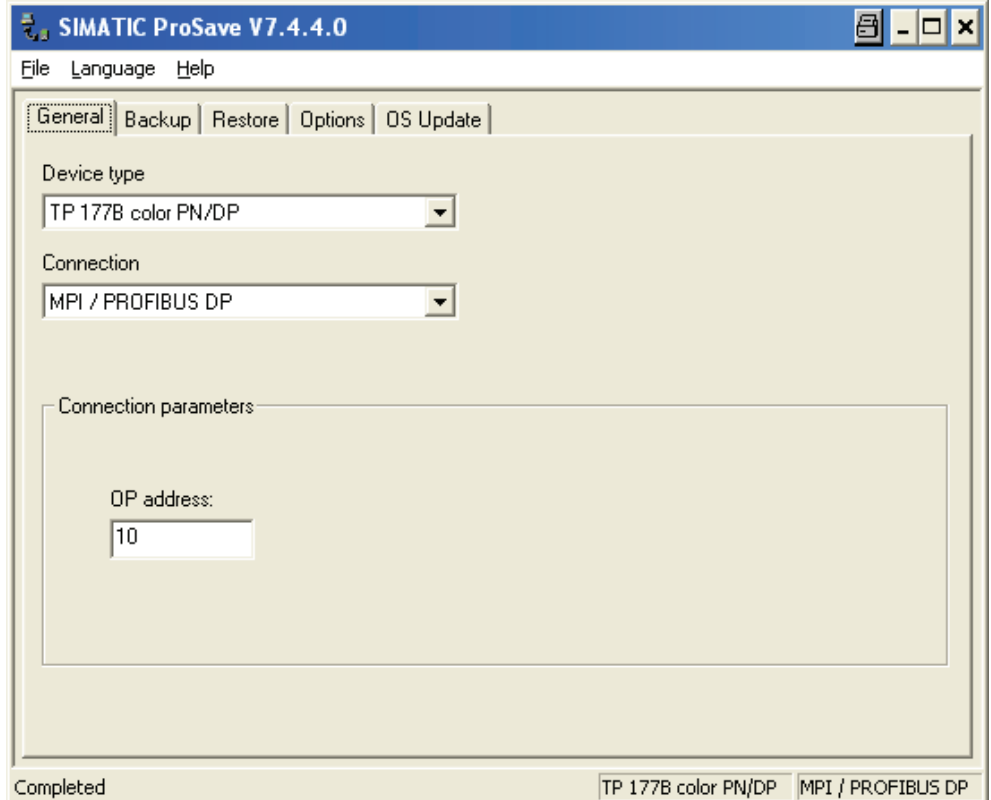
Example with TCP/IP:

Check image

- Use "OS Update" and "Device Status" to check the **Image** version on the development machine:
  The version must be **B 1.1.2.0** or higher.
- If not, install WinCC flexible 2008 + SP1 and execute "Update OS".
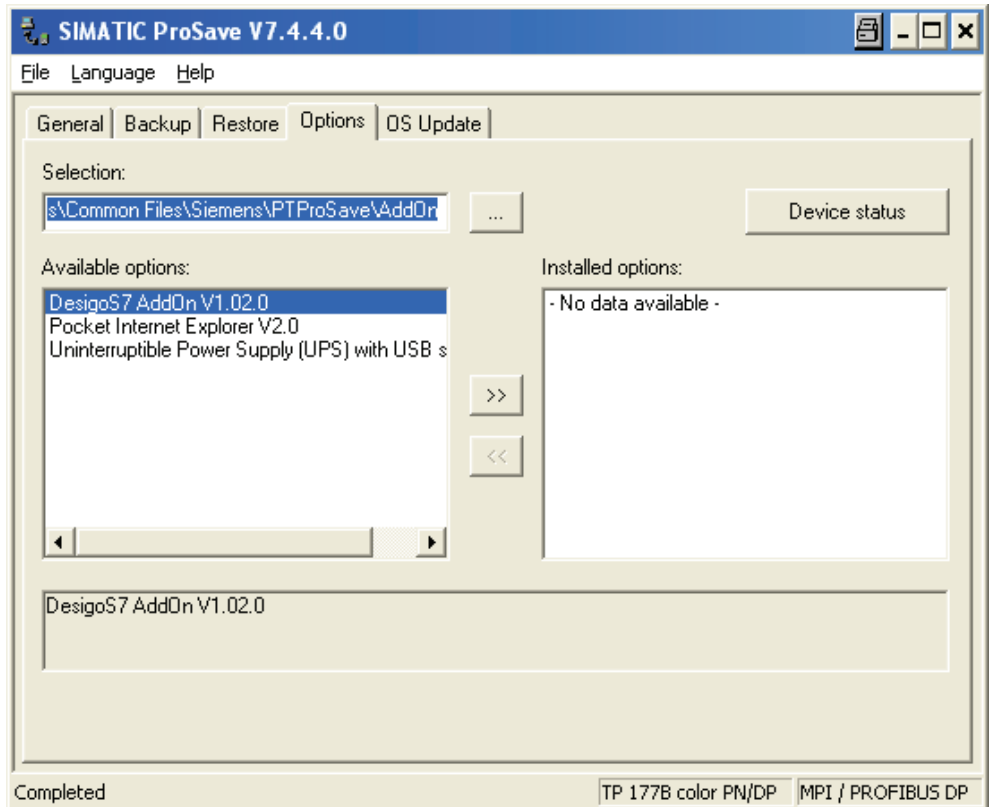 The S7 TP177must be in mode "Transfer" "Connecting to host …".

The figure shows that the development machine has the right image; the image on the S7 TP177 is old. Start Update OS.

After the OS is updated, re-upgrade the storage memory in DESIGO S7 TP177 and set the MPI or TCP address and communication protocol.

The DESIGO S7 AddOn can now be applied to the S7 TP177.
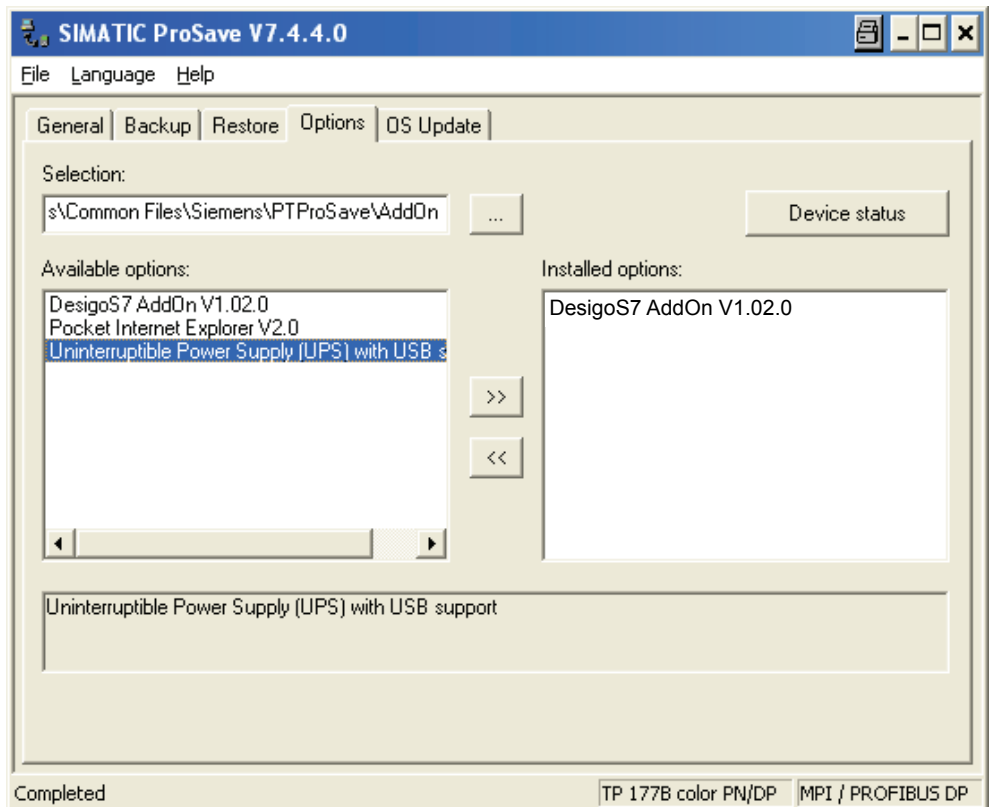
Apply DESIGO S7 AddOn to TP 177B

Transfer DesigoS7 AddOn V1.02.0 to the S7 TP177 via the "Options" menu.
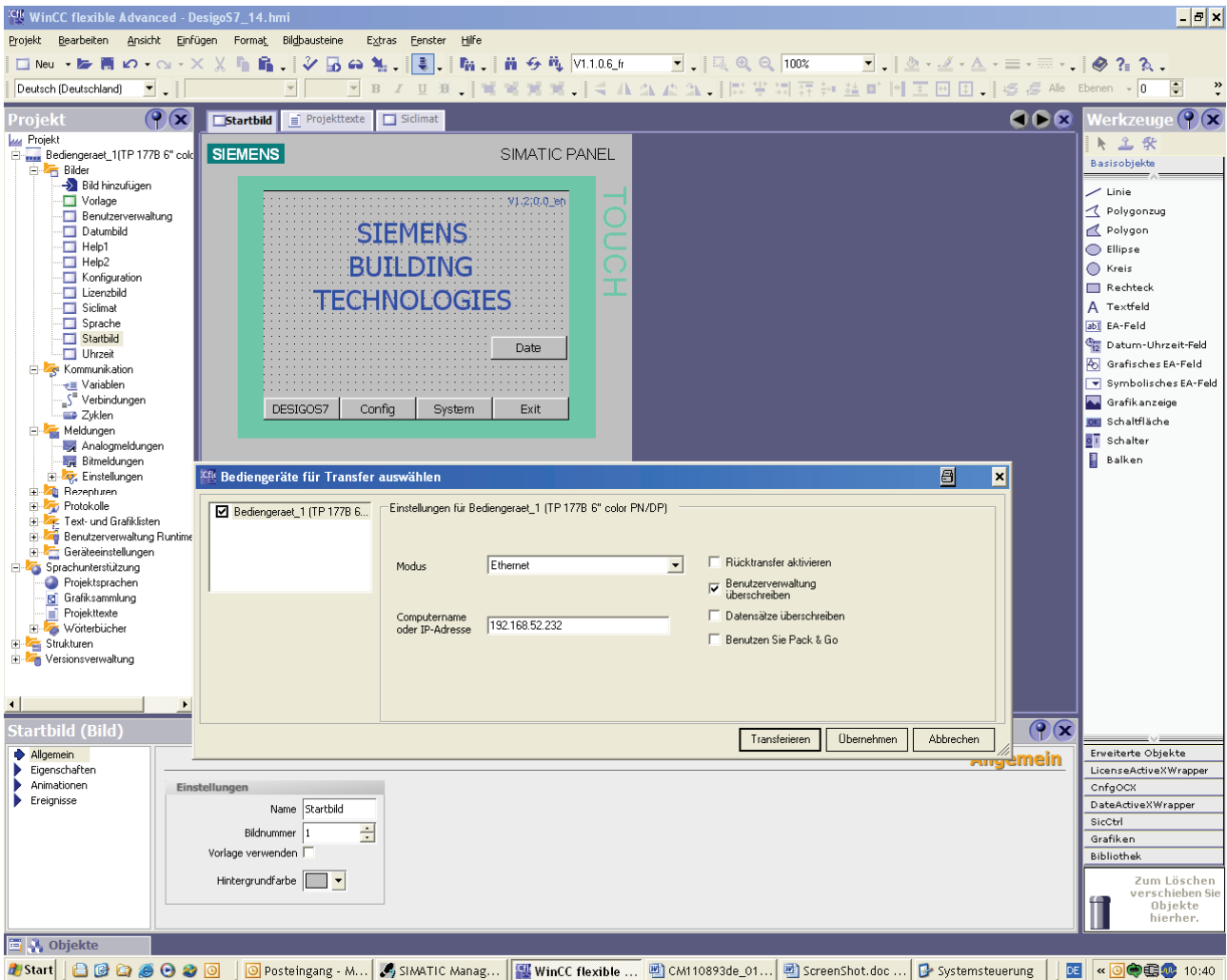Selection path:
`C:\Program Files\Common Files\Siemens\PTProSave\AddOn`
The S7 TP177must be in mode "Transfer" "Connecting to host …".

The following is displayed after a successful transfer:

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Project **DesigoS7_14.hmi** can be transferred to TP 177B.

Upgrade or repair DESIGO S7 TP177 with the new firmware.

Save this status to a media card or to the development machine.
(See *Backup/Restore* in the Control Panel of the DESIGO S7 TP177B or in ProSave).