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SIEMENS



DESIGO[™] S7 Touch Panel S7 TP177 Operating instructions

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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,	Device manual	6AV6991-1DG01-0AA0
	TP177B, OP177B (WinCC flexible)"		(Siemens AI)
[2]	S7 Touch Panel TP177 6FLTPDS7-V1	Data sheet	CM1N9290

1.3 Before you start

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	mark/nopermit.htm
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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**.

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)).



When connected to a DP network, the S7 TP177's own DP address must be set via CONTROL PANEL \rightarrow S7-Transfer Settings \rightarrow MPI, rather than CONTROL PANEL \rightarrow S7-Transfer Settings \rightarrow DP.

Opening a connection automatically adjusts the baud rate.

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.

3.2 Menu

Start window "DESIGO S7" (4.1)	Date window (4.2) (ADMIN only) License window (4.3) (Admin only)	Time of day Date Home OK. MM-ID / serial no. License string. Dispatch note no.	Drop-down list box Drop-down list box Return to Start window. Apply entry. Complete with numeric key Complete with numeric key	board (3 board (3	3.5). 3.5). → Licen	se = SIMATIC CPU runtime pro	otection 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 ((4.10) "Comi	points , e.g. mand".	Data point propertiesExamples:Alarm (disturbance) (5).Field in blue font.Locked field (gray).Text entry field.Numeric entry field.Selection entry field.	 "!!!" Designa Value displa Login require Letter keybo Numeric key Dropdown list 	tes faulty elements (with alarm). y; field cannot be edited. ed (3.4); after using logout. ard appears after touching (3.4). board appears after touching (3.5). st box appears (3.5).
		Home Login (3.4) Res Filter Off/On (5) Esc OK	Home Login Res Filter Off/On Esc OK	Hor Log Res Filte Esc OK	me gin s er Off/On	Home Login Res Filter Off/On Esc OK	Return to Sta Log in as aut Reserve, no Off: Show all Return to ne Apply entry.	rt window. horized user (3.4). function. ; On: Show only elements with alarm (5). ct higher level.
	System (4.5) Config (4.4)	Calibrate touch. System control. Contrast + / – Home Reserve OK Communications Language User Home OK	Touch crosses To Control Panel 0100 in 10% increments Return to Start window. Reserve, no function. Configure DE / EN / FR (system langu Manage passwords. Return to Start window . Apply entry.	Jage)	→ You can a	lso query the firmware version	in the "Language	" window.
Control Panel	Exit Restart the S7 TP17	Return to Control Panel (Windows CE level) 77 from here among other	r 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.

Enter login

The login dialog box opens when you touch **Config** in the Start window or **Log on** in the DESIGO S7 windows:

Log on				×
User:	Г			
Password:	Г			
OK		Cano	el	

The following keyboard is displayed when you touch the **User** or **Password** entry fields:

А	В	С	D	E	F	G	Н	Ι	J
К	L	М	N	0	P	Q	R	S	Т
U	V	W	X	Y	Z	1	*	-	+
	:	,	=	-	()	0		
0	1	2	3	4	5	6	7	8	9
Shif	t (- -	\rightarrow	BSP		E	ESC	<	

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.

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").

3.5 Enter values

and confirm with **OK**.

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

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.

				12;	11:42
Temperaturregle	≥r				
INPUT:	-30.0				
OUTPUT:	0.00				
SETPOINT:	24.0	0			
GAIN:					
TN:					
NZ:					
CONTROLLE	ER_STA	TE: CtrCr	nd		
HOME La	gin	Res	Filter off	Esc	OK

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

				12:	11:18
Temperatu	urregler				
INPUT	-30.	00			
OUTPL	IT: 0.00				
SETPO	INT: 24.0	00			
GAIN:	5.00				
TN:	180				
NZ:	0.50				
CONTR	OLLER_STA	TE: CtrCr	nd		
HOME	Logout	Res	Filter off	Esc	OK

Enter numeric values (limits, setpoints, control parameters etc.) When you touch a numeric entry field, e.g. upper limit of measured value (AI) ...

HIGH LIMIT:	80.00	°C

... the following keyboard opens.

				1
А	1	2	3	ESC
в	4	5	6	BSP
С	7	8	9	+/-
D	E	F	0	
\leftarrow	\rightarrow		<	

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**).

PRESENT_VAL:
RELIABILITY: 0 Auto

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	Use this button to open the System window allowing you to enter other settings. (Section 4).			
required	(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 "Administrator" password required

HOME

οκ

Touch fields to operate, select values from list and confirm with OK. This time of day / hour appears in all DESIGO S7 windows.

Return to the Start window.

Use this button to confirm and apply your entries.

License window 4.3



Enter license

required

Enter the runtime license protection for SIMATIC here. "Administrator" password 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

4.6)

User

"Administrator" password required

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

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

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

ΟΚ

	07/:	10/07	
	13:0	8:07	
TouchCalib	ration	co	ntrast +
ControlPa	anel	cc	ontrast -
HOME	Reserve	Reserve	Ok

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.
НОМЕ	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.
ок	Use this button to apply and save date and time.

4.6 Language (menu)

German		
English		
French		

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.
НОМЕ	Return to the Start window.
ок	Use this button to apply the selected language.

4.7 Password and user administration

					*			
	A		Group (1)	5				
	ANTER	*****	0000	5				
	в	*****	Group (2)	5				
	С	*****	Group (3)	5				
	D	*****	Group (4)	5				
	E	******	Group (5)	5	-			
	•	1		+				
	HOME	Lang	uage	Ok				
	Users "SIC only) does r logout time user logs ou operating le The user na The passwo SICX can re "Unauthoriz If SICX was (9)). If ADMIN is In this case To operate to Double-touc Enter value	X/Group(9)" a not need to be is expired, if ut via the Log evels. ame can be b bord must be b eassign the us eassign the us eastign the us eastign the us eastign the us fields: hoved to "Uf you must re fields: ch to display to s, numbers o	and "ADMIN/Gro e parameterized DESIGO S7 win jout button. Gro etween 1 and 44 etween at least ser to his/her gro tion 2.4). (Group oup "Unauthorized", AI load the firmwan the keyboard or r assign a group	oup(9) I. This adows oups (1 0 char 3 and oup if co (1) to ced", A DMIN re (Win a sele o and o	' are adm is the de were ope 1) to (8) c acters. max. 24 a user (A o (8)). DMIN ca can no lo nCC flexi ection list. confirm w	inistrators fault grou ened with orrespond character to H) was n reassign nger be re ble or men	s. Group(0) p, active aft out login, or d to the diffe rs. (No bland s moved to g n the user (eauthorized mory card).	(view er if a rent <s). group Group</s).
НОМЕ	Return to th	e Start windo	W.					
Language "Administrator" password required	Use this but	tton to chang	e to the system	langu	age wind	ow. (Secti	on 4.6).	
ОК	Use this but	tton to apply	your entries to tl	ne use	er window	<i>.</i>		

Assign password level / operating privileges

The following password I	levels exist o	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	Read-only
		DES7 as needed.	group.

Note

STOP

Important

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

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.			
	13:14:44			
	AHU 11, temp.control, 1- On !!! Common alarm No Simulation Yes Timer Off			
	HOME Logout Res Filter off Esc Ok			
Osmanal				
General	Button Filter off/on is irrelevant for data point windows.			
	RW and RO mean:			
	Read-write and read-only.			
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).			

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).
ок	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. Only 11 rows are displayed; any other rows must be operated by scrolling vertically. Design 13:15:06 Analog value 17.54 -Analog value 52.26 Common alarm Yes Cooling coil 0.00 Cooling demand Inactive Energy recovery 10.00 Exhaust air filter Normal 111 Extract air fan On Extract air filter Normal Extract air temperature 21.72 Off Equit plant control

Columns

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

Filter off

Esc

Ok

Column 3: Fault identification (!!!)

Res

Logout

HOME

4.10 Block overview window

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

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

				13	3:16:04
Comman	nd value		On		
Common	alarm		No		
Flow ten	nperature		-30,0	0	
Pump			Off		
Return te	emperature		-30.0	0	
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 :	In the event of an error, an error ID appears in the message row for each		
Help	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		
	The same is true when you touch Help		

Error code "0x 00 00 00 00" <plc4> <plc3> <plc2> <plc1></plc1></plc2></plc3></plc4>	
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 0x04: MAX NUM OF CONN REACHED	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
HOME next >>	<< previous HOME

Help2

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

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.

 Important notes for reengineering: If an engineered connection was loaded in an extended WinCC protect is transferred without This is a system function. Loading the standard DESIGO S7 WinCC project does not sol 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 or and reload the DESIGO S7 WinCC project. 		∍m. 77,	
	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:		
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	Eile Language Help	_	
	TP 177B color PN/DP		
	Connection parameters OP address: 10		
	Completed TP 177B color PN/DP MPI / PROFIBUS	DP	

Example with TCP/IP:

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General Backup Restore Options OS Update	
TP 177B color PN/DP	
Ethernet	
Connection parameters	

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 ...".

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Opening: C:\Program Files\Siemens\SIMATIC WinCC flexible\WinC(Image for: Mobile Panel 177 DP, Mobile Panel 177 PN, TP 1778 mon Windows CE: 3.0 Image version: B 1.1.2.0 OK Determining version Windows CE: 3.0 Image version: B 1.1.2.0 OK Determining version Windows CE: 3.0 Image version: B 1.1.2.0 OK OK	Cflexible Images\Mobile o DP, OP 1778 mono [
	Update OS			
Completed TP 177B color PN	/DP MPI / PROFIBUS DP			

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

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<u>File Language H</u> elp		
General Backup Restore Options OS Update Selection:		
s\Common Files\Siemens\PTProSave\AddOn		Device status
Available options:	Installed options:	
DesigoS7 AddOn V1.02.0 Pocket Internet Explorer V2.0 Uninterruptible Power Supply (UPS) with USB s 	- No data available -	
DesigoS7 AddOn V1.02.0		
Completed	TP 177B color PN/DP	MPI / PROFIBUS DP

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 ...".

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General Backup Restore Options OS Update	
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s\Common Files\Siemens\PTProSave\AddOn	Device status
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DesigoS7 AddOn V1.02.0 Pocket Internet Explorer V2.0 Uninterruptible Power Supply (UPS) with USB s	DesigoS7 AddOn V1.02.0
Uninterruptible Power Supply (UPS) with USB support	
Completed	TP 177B color PN/DP MPI / PROFIBUS DP

The following is displayed after a successful transfer:

WinCC flexible Advanced - DesigoS7_14.h - 8 × Projekt Bearbeiten Ansicht Einfügen Format Bildbausteine Extras Fenster Hilfe 🖸 Neu 🔸 😹 😰 - 🖓 - 🗙 X 🦌 🛍 . 🗳 🔂 🖨 🐐 . 💽 . 🦌 . 🖬 . 🛱 🔗 🦄 V1.1.06_fr 🔹 🚬 🔍 🍳 🔍 100% • • | * * Deutsch (Deutschland) • B 8. **4 4 4 4 .** | < / 1 D* » Projekt Projekttexte \mathbf{P} N 2 8 SIMATIC PANEL SIEMENS Adieng.. 5 Bild inzufügen Vorlage Bild inzufügen Datumbild Help1 Konfiguration Lizenzbild Lizenzbild Uhrzeit Kommunikation Variablen Variablen Variablen Verlindungen Vklen Basisobjekte / Linie 🔨 Polygonzug SIEMENS 🛃 Polygon Ellipse BUILDING Kreis Rechteck TECHNOLOGIES A Textfeld ab] EA-Feld 🕎 Datum-Uhrzeit-Feld Date Grafisches EA-Feld Symbolisches EA-Feld Grafikanzeige Schaltfläche Schalter DESIGOS7 Config System Analogmeldungen Exit ldunge 🚦 Balken Bitneldungen
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Project DesigoS7_14.hmi can be transferred to TP 177B.

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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).

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