SIEMENS

Operating Instructions (compact) 1

SIMATIC

Industrial PC
SIMATIC HMI IPC577C

Operating Instructions (Compact)

05/2009
A5E02368077-01

Legal information

Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

⚠DANGER
indicates that death or severe personal injury **will** result if proper precautions are not taken.

⚠WARNING
indicates that death or severe personal injury **may** result if proper precautions are not taken.

⚠CAUTION
with a safety alert symbol, indicates that minor personal injury can result if proper precautions are not taken.

CAUTION
without a safety alert symbol, indicates that property damage can result if proper precautions are not taken.

NOTICE
indicates that an unintended result or situation can occur if the corresponding information is not taken into account.

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified Personnel

The device/system may only be set up and used in conjunction with this documentation. Commissioning and operation of a device/system may only be performed by **qualified personnel**. Within the context of the safety notes in this documentation qualified persons are defined as persons who are authorized to commission, ground and label devices, systems and circuits in accordance with established safety practices and standards.

Proper use of Siemens products

Note the following:

⚠WARNING
Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be adhered to. The information in the relevant documentation must be observed.

Trademarks

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Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

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1.1 Safety instructions

⚠ CAUTION

In order to avoid substantial damage and for your own safety, note the safety instructions in this documentation and in the operating instructions.

⚠ WARNING

Function test while installing the device in machines or execute systems

Following the results of a risk analysis, additional protection equipment on the machine or the system is necessary to avoid endangering persons. With this, especially the programming, configuration and wiring of the inserted I/O modules have to be executed, in accordance with the safety performance (SIL, PL or Cat.) identified by the necessary risk analysis. The intended use of the device has to be ensured.

The correct use of the device has to be verified with a function test on the system. This test can detect programming, configuration and wiring errors. The test results have to be documented and, if necessary, entered into the relevant documents that verify safety.

1.2 Unpacking and checking the delivery

1. Please check the packaging material for transport damage upon delivery.
2. If any transport damage is present at the time of delivery, lodge a complaint at the shipping company in charge. Have the shipper confirm the transport damage immediately.
3. Unpack the device.

NOTICE
Lie the front side on a soft surface to avoid damaging the front panel USB port.

4. Keep the packaging material in case you have to transport the unit again.

Note

The packaging protects the device during transport and storage. Therefore, never dispose of the original packaging material!

5. Please keep the enclosed documentation in a safe place. You will need the documentation when you start up the device for the first time.
6. Check the contents of the package for completeness and transportation damage. Check for completeness using the enclosed scope of delivery list.
7. Should the contents of the package be incomplete or damaged, please inform the responsible supply service immediately and fax us the enclosed form "SIMATIC IPC/PG quality control report".

⚠ WARNING
Make sure that a damaged device is not installed nor put into operation.

8. Note the identification information (see chapter "Identification data of the device").

Notes on display

A small number of faults in the display is unavoidable.

Bad pixels	Permissible number
Permanently bright and permanently dark pixels	≤ 12
Permanently bright, green pixels	≤ 5

1.3 Components of the Product

Scope of delivery for SIMATIC HMI IPC577C

Number	Name	Description
1	SIMATIC HMI IPC577C	
1	Documentation and Drivers CD	Contains the documentation and the hardware drivers.
1	Operating Instructions (compact) SIMATIC HMI IPC 577C	Printed copy in German and English of Operating Instructions (compact).
6	Clamp	Mounting clamp for the SIMATIC HMI IPC577C.
1	DC power plug (for devices with DC power supply only)	Only supply variant with 24 V DC power supply.

1.4 Device identification data

Enter the identification data of the device into the table.

Serial number (on the type plate)	S VP ...
Order no. of the device	6AV7 885-...
For the supply variants with Windows XP Embedded / XP Professional: **Microsoft Windows Product Key** from the "Certificate of Authenticity" (COA). .	
Ethernet address 1: BIOS Setup (F2 key) under Main > Hardware Options > Ethernet Address	
Ethernet address 2: (not for PROFINET versions) BIOS Setup (F2 key) under Main > Hardware Options > Ethernet Address	
CP 1616 onboard MAC address layer 2	
CP 1616 onboard Mac address PROFINET	

1.5 Accessories

These accessories are not included in the product package.

Accessories	Order no.
2 GB Compact Flash card	6ES7648 - 2BF02 - 0XF0
4 GB CompactFlash card	6ES7648 - 2BF02 - 0XG0
8 GB CompactFlash card	6ES7648 - 2BF02 - 0XH0
Memory module 1 GB DDR3	6ES7648 - 2AH40 - 0AH0
Memory module 2 GB DDR3	6ES7648 - 2AH50 - 0AH0
Memory module 4 GB DDR3	6ES7648 - 2AH60 - 0AH0
Touch pen	6AV7672-1JB00-0AA0

Note

Replace CompactFlash card only with replacement card of the same product version.

Only SIMATIC PC CompactFlash cards with product version number 02 (ES 02) can be used for this device.

1.6 Affixing Labeling Strips for Function Keys and Softkeys

Note

The following table applies only to devices with a key panel.

The control unit has two horizontal and two vertical keypads for the function keys and the softkeys. Assign user specific functions to the keys as needed. You can mark these keys with labeling strips. A4 films for creating the labeling strips are available as accessories.

Proceed as follows to affix the labeling strips:

Preparing the labeling strips

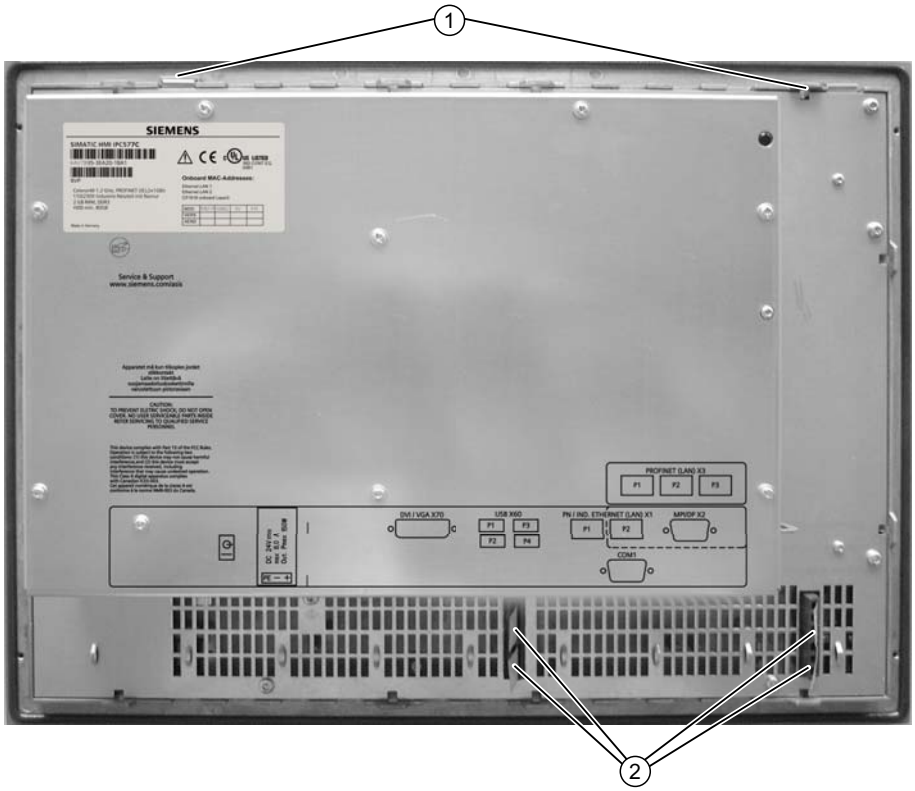
1. Label the DIN A4 film with a laser printer, for example using the printing templates provided on the Documentation and Drivers CD.
2. Cut the labeling strips along the pre-printed lines.

Note

Do not insert handwritten labeling strips until the ink has dried.

Affixing the labeling strips

Insert the labeling strips into the slots provided on the rear of the control unit.



① Labeling strips, vertical keypads

② Labeling strips, horizontal keypads

Figure 1-1 15" touch screen device: Rear of device with labeling strips

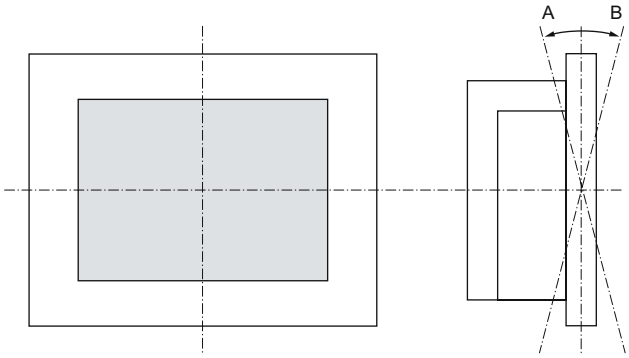
1.7 Installing/Mounting

1.7.1 Permitted mounting positions

Mounting positions

Only vertical installation with two mounting directions of up to +45° and -45° is permitted for the device.

With installed Compact Flash card



Temperature at the device		Angle A	Angle B
Rear	Front		
0° - 50°C[1)]	Max. 40°C	+45°	-45°
0° to 45°C	0° to 45°C	+45°	-45°

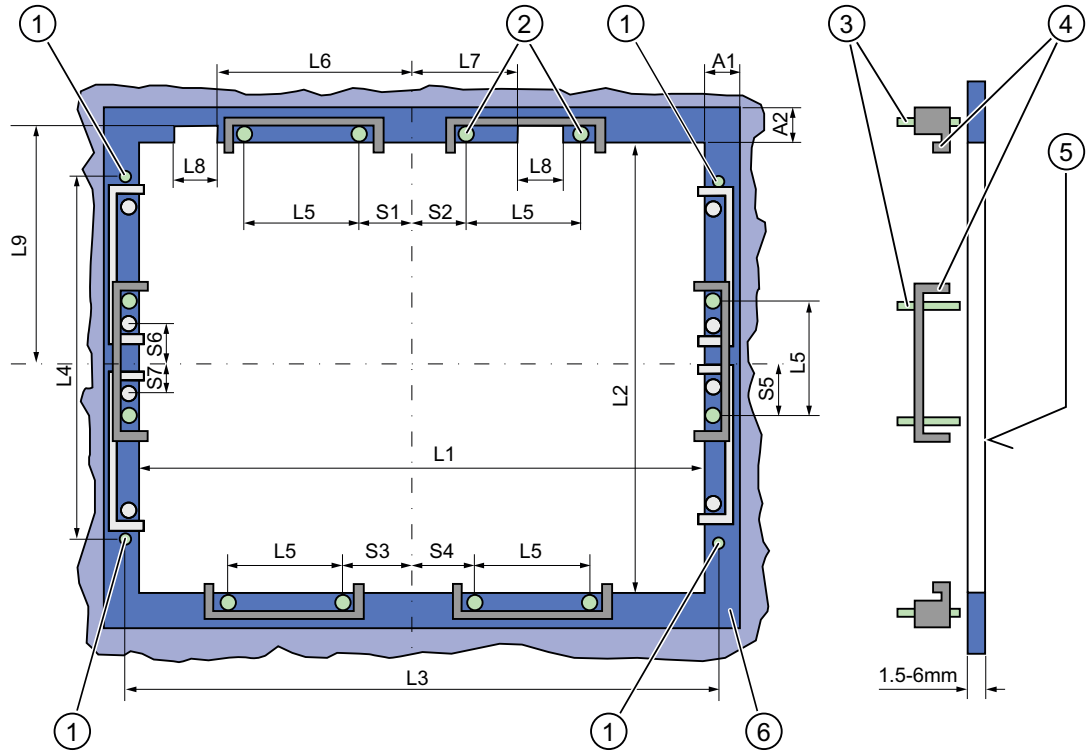
[1] = Installation according to RAL (Restricted Access Location)
(installation of device in operating facilities with restricted access, for example, a locked control cabinet)

Mechanical environmental conditions

- Vibration
  - Operation, tested in accordance with DIN IEC 60068-2-6
    10 to 58 Hz: 0.075 mm 58 to 200 Hz: 0.5 m/s²
  - Storage/transport, tested according to IEC 60068-2-27, IEC 60068-2-29
    50 m/s2, 30 ms,
    250 m/s2, 6 ms,

1.7.2 Preparing the mounting cut-out

The following illustration shows the dimensions for the mounting cut-out.



(1)	Drill hole for screw attachment	(4)	Clamp
(2)	Pressure points for clamp	(5)	R_Z 120 in the seal area
(3)	Setscrews	(6)	Seal area

Figure 1-2 Drill holes for the screws and pressure points for the clamp screws

Note

Mounting dimensions can be read from the dimension overview or they can be transferred to the cabinet from the mounting template supplied.

Table 1- 1 Dimensions for the mounting cut-out in mm

Control unit	L1	L2	L3 [1]	L4 [1]	L5	L6 [2]	L7 [2]	L8 [2]	L9 [2]	A1	A2	S1	S2 S3 S4	S5 [3]	S6 [3] S7 [3]
Tolerance	**±1**	**+1**	**±0,2**	**±0,2**	**±0,5**	**±0,5**	**±0,5**	**±0,5**	**+1**	**±1**	**±1**	**±1**	**±1**	**±1**	**±1**
Key panel															
12" TFT	450	290	465	235	112	—	—	—	—	16	10	78	78	56	—
15" TFT	450	321	465	279	112	186	135	25	165	16	17	51	51	56	—
Touch panel															
12" TFT	368	290	—	—	112	—	—	—	—	16	10	19	35	56	—
15" TFT	450	290	465	235	112	—	—	—	—	16	10	81	81	56	—
19" TFT	450	380	465	235	112	—	—	—	—	16	10	46	46	—	46

[1] M6 thread or drill holes with a diameter of 7 mm

[2] Cut-outs for the shafts of the insert strips are only necessary for 15" key panels.

[3] Two clamps necessary for vertically securing clamps only for 19" touch panel fronts.

Preparing the mounting cut-out

Steps for preparing the mounting cut-out	
1.	Select a location suitable for mounting, taking into account the mounting position.
2.	On the basis of the dimensions, check whether the required screw and pressure points on the rear and the seal area are easily accessible after the completion of the mounting cut-out. Otherwise the mounting cut-out is useless.
3.	Complete the mounting cut-out in accordance with the dimensions.

1.7.3 Securing the Device with Clamps

You require 6 clamps in order to mount the device. These are supplied with the device.

Required tool for fasting the clamps: Allen wrench 2.5 mm

Figure 1-3 Clamp assembly

Rack installation

Steps for fastening the device with clamps	
1.	Follow the installation instructions.
2.	Disconnect the device from the power supply.
3.	Working from the front, insert the device into the 19" rack.
4.	Fasten the control unit in the rack from the rear using the clamps. Tighten the setscrews to a torque of 0.4-0.5 Nm.

Swivel arm installation

Steps for fastening the device with clamps	
1.	Follow the installation instructions.
2.	Disconnect the device from the power supply.
3.	Working from the front, place the device onto the swivel arm.
4.	Fasten the control unit on the swivel arm from the rear using the clamps. Tighten the setscrews to a torque of 0.4-0.5 Nm.

Control cabinet installation

Steps for fastening the device with clamps	
1.	Follow the installation instructions.
2.	Disconnect the device from the power supply.
3.	Working from the front, insert the device into the mounting cut-out.
4.	Secure the control unit in the mounting cut-out from behind with the clamps, as shown in the mounting cut-out in the dimensions. Tighten the setscrews to a torque of 0.4-0.5 Nm.

IP65 degree of protection

The IP65 degree of protection is only provided for a clamp mounting together with a ring seal.

NOTICE
Control cabinet installation: Material strength at the mounting cut-out Please ensure that the material strength at the mounting cut-out is a maximum of 6 mm. Please follow the specifications for the dimensions in the section . The degree of protection can only be guaranteed when the following requirements are met: 1. The material strength at the mounting cut-out must be at least 2 mm. 2. The deviation from the plane of the mounting cut-out in relation to the external dimensions for an installed HMI device is ≤ 0.5 mm.

1.7.4 Securing the Device with Screws

IP54 degree of protection

This degree of protection is ensured for screw mounting.

NOTICE
Control cabinet installation: Material strength at the mounting cut-out Please ensure that the material strength at the mounting cut-out is a maximum of 6 mm. Please follow the specifications for the dimensions in the section . The degree of protection can only be guaranteed when the following requirements are met: 1. The material strength at the mounting cut-out must be at least 2 mm. 2. The deviation from the plane of the mounting cut-out in relation to the external dimensions for an installed HMI device is ≤ 0.5 mm.

Note

Securing with screws is not possible with the 12" touch screen variant.

Required tool for fasting with screws: 7 mm drill

NOTICE
Only use the catalog-listed mounting material (order number 6AV7672-8KE00-0AA0) for 19" devices for screw mounting.

NOTICE
Risk of damage Ensure that no metal cuttings enter the device when the holes are drilled. Cover the device with film or when drilling, use removal by suction.

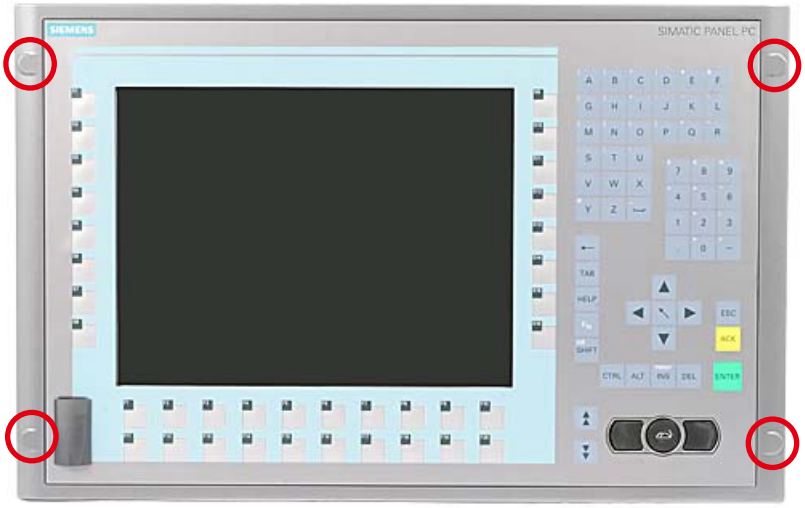


Figure 1-4 Designated location for holes on the control unit

Rack installation

Steps for fastening the device with screws	
1.	Follow the installation instructions.
2.	Carefully drill the respective holes in the control unit at the designed location from the rear.
3.	Working from the front, insert the device into the 19" rack.
4.	Secure the control unit by inserting suitable screws through the holes and attaching nuts.

Swivel arm installation

Steps for fastening the device with screws	
1.	Follow the installation instructions.
2.	Carefully drill the respective holes in the control unit at the designed location from the rear.
3.	Working from the front, place the device onto the swivel arm.
4.	Secure the control unit by inserting suitable screws through the holes and attaching nuts.

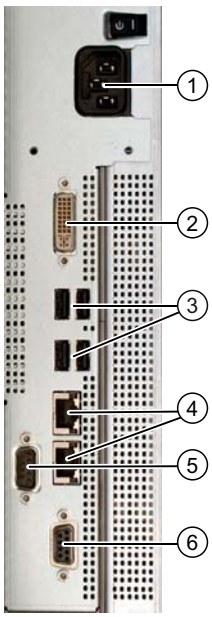
Control cabinet installation

Steps for fastening the device with screws	
1.	Follow the installation instructions.
2.	Drill suitable holes at the prepared installation cut-out in accordance with the specifications for L4 and L5, as shown at the dimensions in the mounting cut-out
3.	Carefully drill the respective holes in the control unit at the designed location from the rear.
4.	Working from the front, insert the device into the mounting cut-out.
5.	Secure the control unit by inserting suitable screws through the holes and attaching nuts.

1.8 Connecting

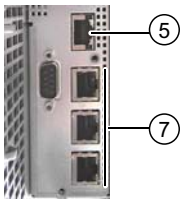
1.8.1 Connection elements and operator controls

Connection components of computer unit



①	240 VAC	Power supply connection
②	DVI	DVI-I socket
③	USB	4 x USB 2.0 / 500 mA connections
④	ETHERNET	2 RJ45 Ethernet connections for 10/100/1000 Mbps
⑤	COM 1	Serial port 1 (RS232) 9-pin Cannon socket
⑥	PROFIBUS DP/MPI	PROFIBUS-DP/MPI interface (RS 485, electrically isolated), 9-pin Cannon socket

Figure 1-5 Variants with PROFIBUS



⑤	ETHERNET	1 RJ45 Ethernet connection for 10/100/1000 Mbps
⑦	PROFINET	CP 1616 onboard interface, three RJ-45 jacks

Figure 1-6 Variants with PROFINET

Connection components of the control unit

① 1 connection USB 2.0 high current / 500 mA under sealed cover (not available with every product variant).

NOTICE
Ensuring degree of protection P65 When the sealed cover over the USB port is removed in order to connect a USB component, the IP65 degree of protection for the device is no longer guaranteed.

Note

Use of USB devices

- Wait at least ten seconds between removal and reconnection of USB devices. This also applies to control units with touch screen panels, especially for touch operation.
- When using standard USB peripherals, bear in mind that their EMC immunity level is frequently designed for office applications only. These devices may be used for commissioning and servicing. However, only industry-standard devices are allowed for industrial operation.
- Peripherals are developed and marketed by individual vendors. The respective manufacturers offer support for the peripherals. Moreover, the terms of liability of the individual vendors or suppliers apply here.

1.8.2 Connecting the 24 VDC power supply

To be noted before you connect the device

Note the following in order to operate the device safely and according to regulation:

⚠ WARNING

The device should only be connected to a 24 VDC power supply which satisfies the requirements of safe extra low voltage (SELV). You will also have to connect a protective conductor. The cable cross section has to match the short-circuit current of the 24 VDC power supply so that the cable will not be damaged in case of a short circuit

Cable cross sections must range from a minimum of 1.3 mm² (AWG16) to a maximum of 3.3 mm² (AWG12).

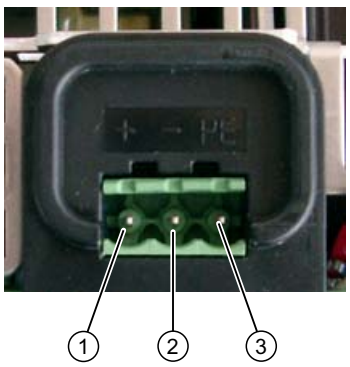
NOTICE

The 24VDC power source must be adapted to the input data of the device.

NOTICE

If a CompactFlash card is used in the device, make sure that the card is seated correctly before you connect it.

Connecting the devices

Steps for connecting the device to the 24 V DC power supply		
1.	Switch off the 24 V DC power source.	
2.	Connect the DC plug (1) DC 24 V (2) ground (3) protective conductor	

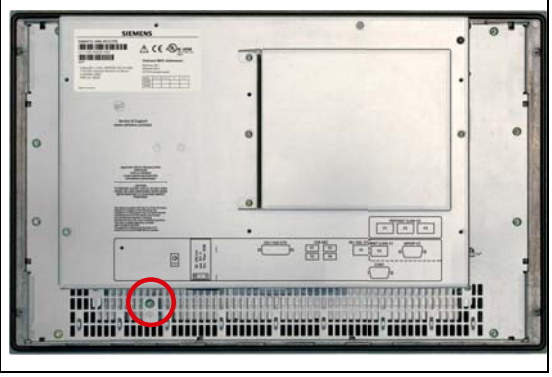
Power consumption

The power consumption at 24 V can be up to 90 W, depending on device.

Note equipotential bonding

A low-impedance earth connection ensures that interference signals generated by external power supply cables, signal cables or cables to the peripherals are safely discharged to earth.

Required tool for equipotential bonding: TORX T20 screwdriver.

Steps for connecting the equipotential bonding		
1.	Connect the equipotential bonding (M4 threads) on the device (large surface, large-area contact) with the protective earth conductor of the cabinet or plant in which the device is to be installed. The minimum conductor cross-section may not amount to less than 5 mm^2.	

1.8.3 Connecting the 100 - 240 V AC Power Supply

General connection information

Note the following in order to operate the device safely and according to regulation:

Note

Voltage range

The varying voltage power supply module is designed for operation on 100 to 240 V AC networks. It is not necessary to adjust the voltage range.

NOTICE

Risk of damage

Do not connect or disconnect power and data cables during thunderstorms.

⚠WARNING

Power supply network

The device is designed for operation on grounded power supply networks (TN networks to VDE 0100, Part 300, or IEC 60364-3).

It is not designed for operation on ungrounded or impedance-grounded power networks (IT networks).

NOTICE

Permitted mains voltage

The permitted nominal voltage of the device must conform with local mains voltage.

NOTICE

Power disconnection

The mains connector must be disconnected to fully isolate the device from mains. Ensure easy access to this area.

A master mains disconnect switch must be installed if the device is mounted in a switch cabinet.

Always ensure free and easy access to the power inlet on the device or that the safety power outlet of the building installation is freely accessible and located close to the device.

NOTICE

If a Compact Flash card is used in the device, be sure that the card is properly installed before you connect it.

Note

Power factor correction

The power supply contains an active PFC (Power Factor Correction) circuit to conform to the EMC guidelines.

Uninterruptible AC power systems (UPS) must supply a sinusoidal output voltage in the normal and buffered mode when used with SIMATIC PCs with an active PFC.

UPS characteristics are described and classified in the standards EN 50091-3 and IEC 62040-3. Devices with sinusoidal output voltage in the normal and buffered mode are identified with the classification "VFI-SS-...." or "VI-SS-....".

Country-specific connection information

For the USA and Canada

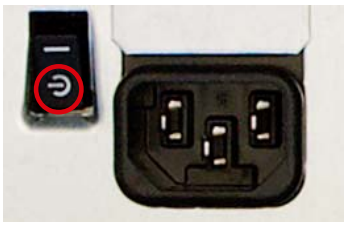
For the United States and Canada, a CSA or UL-listed power cord must be used. The connector must be compliant with NEMA 5-15.
Country-specific mains leads are available as accessories.

- **100 V supply voltage**
  Use a flexible power cord which is approved to UL and CSA, and which has the following features: Type SJT with three leads, min. 18 AWG conductor cross-section, max. length 4.5 m, parallel grounding plug 15 A, min. 125 V.
- **240 VAC supply voltage**
  To be used is a flexible power cord approved to UL and with CSA label, and which has the following features: Type SJT with three conductors, min. 18 AWG conductor cross-section, max. length 4.5 m, and tandem grounded connector 15 A, min. 250 V.

For countries other than the USA and Canada

- **240 V supply voltage**
  This device is equipped with a safety-tested power cord which may only be connected to ground contact power outlet. If you choose not to use this cable, you must use a flexible cable of the following type: Min. 18 AWG conductor cross-section and 15-A / 250-V shock-proof connector. The cable set must be compliant with safety regulations and stipulated IDs of the country where the system is to be installed.

Connecting the device

Steps for connecting the device to the 100 - 240 VAC power supply		
1	Turn off the AC power source: • Switch on power supply in "Off" position (red marking)	
2	Insert the power cable in the electrical socket.	

Power consumption

The power consumption at 240 V can be up to 90 W, depending on device.

1.8.4 Connecting the equipotential bonding circuit

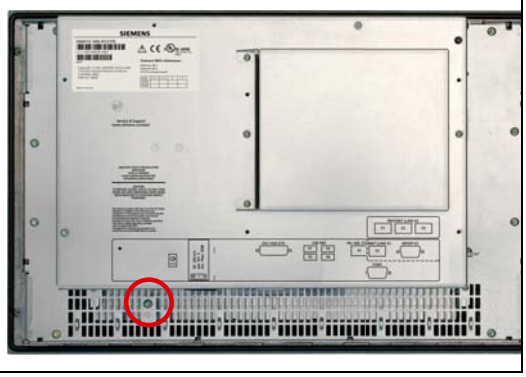
A low-impedance earth connection ensures that interference signals generated by external power supply cables, signal cables or cables to the peripherals are safely discharged to earth.

The equipotential bonding connection of the device is located at the connection elements of the computer unit and is identified by the following symbol:

Figure 1-7 Equipotential bonding

Connecting the equipotential bonding circuit

Required tools for connection of equipotential bonding: TORX T20 screwdriver

Steps for connecting the equipotential bonding		
1.	Connect the equipotential bonding terminal ① (M4 thread) on the device (large surface, large-area contact) with the central grounding point of the control cabinet. The minimum conductor cross-section may not amount to less than 5 mm^2.	

Avoiding differences in potential

Differences in potential arise between separated system parts, which in some cases leads to high equalization currents. This situation may arise if the cable shielding is terminated at both ends and grounded at different system parts. Potential differences can be caused, for example, by different power inputs.

Reduce the differences in potential by laying the equipotential bonding cables in such a way that the affected electronic components function properly. Observe with the following guidelines when setting up equipotential bonding:

- The lower the impedance of the equipotential bonding cable, the greater the effectiveness of the equipotential bonding.
- When two system parts are connected by means of a shielded signal cable, and their shields are both connected to the ground or protected conductor, the following must be observed: The impedance of the additional equipotential bonding cable amounts to 10% of the shield impedance, at the most.
- Make sure that the equipotential bonding cable cross section is selected to accommodate the maximum equalization current. The equipotential bonding conductor cross-section that has proven best in practice is 16 mm^2.

- Use equipotential bonding conductors made of copper or galvanized steel. Connect the cables to the ground or protective conductor over a wide area. Protect the ground or protective conductor from corrosion.
- Lay the equipotential bonding cable in such a way that the area between the equipotential bonding cable and signal cables is as small as possible.

1.9 Commissioning

1.9.1 Commissioning Information

Note

Starting up Windows XP Embedded for the first time

System startup can take longer than usual for the initial commissioning. Only a blue screen is displayed for several minutes.

NOTICE

Windows XP Embedded: Observe EWF Information

A configurable write filter (Enhanced Write Filter) is available under Windows XP Embedded. Please observe the EWF rules during activation and use, since a data loss may otherwise occur.

Note

Refer to the supplied Operating Instructions Compact (Software) to learn about the procedure for installing the Compact Flash card with the Windows XP Embedded operating system.

1.9.2 Basic commissioning - initial startup

Requirement

- The device is connected to the power supply.
- The equipotential bonding is connected.
- The cables are correctly plugged in.

Setting up the operating system

Note

Starting up Windows XP Embedded for the first time

System startup can take longer than usual for the initial commissioning. Only a blue screen is displayed for several minutes.

The devices with Touch Panel require a USB mouse for commissioning.

When the computer starts up for the **first** time, the Windows Embedded Standard 2009 operating system on the Compact Flash card or Solid State Drive (SSD) or hard disk is configured automatically.

Proceed as follows:

1. Switch the device on using the On/Off switch. The PC performs a self-test (POST). During the self-test, this message appears:
   `Press <F2> to enter SETUP or <ESC> to display the boot menu`
2. Wait until this message is cleared, then follow the instructions on the screen.

NOTICE

The device may not be switched off at any time during the installation process.

Do not change the default BIOS settings, otherwise the operating system setup may become corrupted.

3. Restart
   After you have entered all the necessary information and the operating system is configured,
   you are prompted to restart the system. Acknowledge this prompt with **Yes**.

Note

System startup can take longer than usual for the initial commissioning. The screen will display "FBResseal Resealing in progress..." for several minutes.

Note

Errors and warnings can be displayed in the status bar, with the first and second switch on of the initial commissioning or after a restore procedure This will have no effect on the device functions.

When you switch on the PC now, the user interface of the Windows XP Embedded operating system is automatically opened when the startup routine is completed.

Note

To prevent data loss, it is advisable to create an image of your system partition after basic commissioning.

Switching off the device

When you work with Windows Embedded Standard, always shut down the PC with the command **Start > Shut Down**.

Note

The Enhanced Write Filter should be enabled following the installation of Windows Embedded Standard 2009 on a CompactFlash card or SSD or hard disk.

1.9.3 Setting Up the Language Selection

The hard disk version of Windows XP Embedded offers the option of setting the menus and dialog boxes to a different language. You can select German and English.

Note

Changing the Language Selection

Changing of the language selection under Windows XP Embedded is not possible in the Compact Flash version.

Setting up the language selection

The default setting on your device is Windows XP Embedded with English menus and dialog boxes and a US keyboard layout. You can change the language in the Control Panel by selecting

Start > Control Panel > Regional and Language Options Languages, tab **Language used in menus and dialogs** field.

For the **Regional and Language Options** set the default as **non-Unicode programs** under **Advanced** in addition to the language for menus and dialogs.

1.9.4 Setting the panel type

1.9.4.1 First commissioning

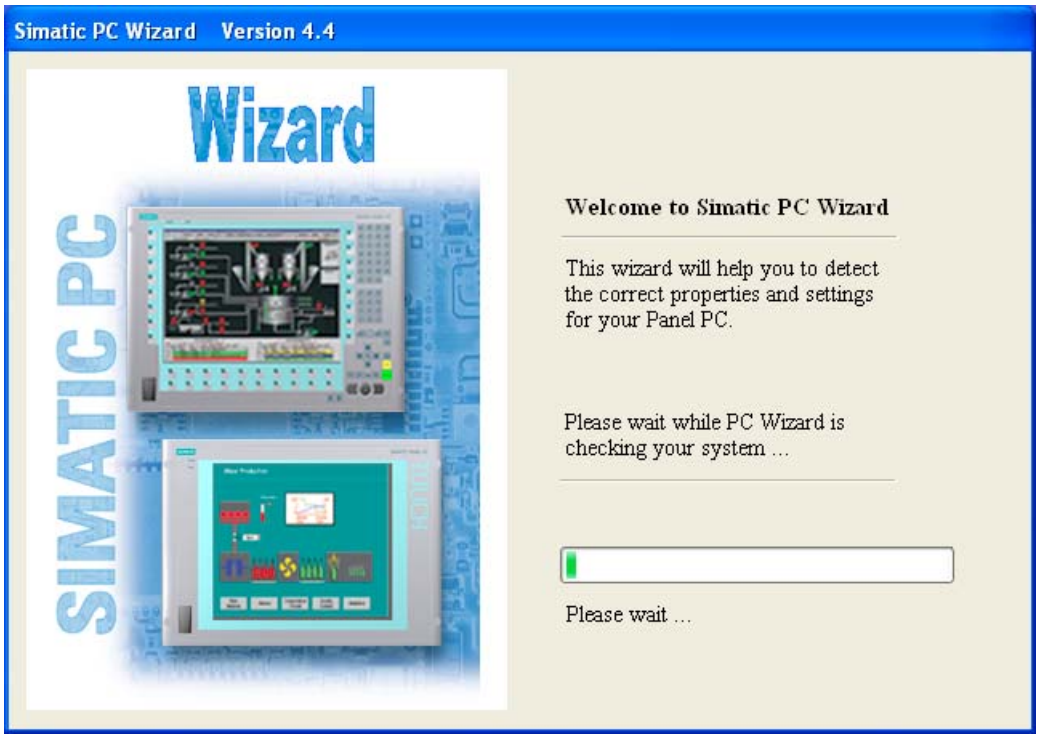
First commissioning

- The "SIMATIC PC Wizard" program is automatically started once during commissioning.
- The "SIMATIC PC Wizard" implements the specific settings for the Panel PC during the initial startup of the operating system.
- Several dialogs appear on screen during the commissioning of the SIMATIC PC.

NOTICE
Start the PC for commissioning in an unchanged factory state and follow the dialogs until their conclusion.

Procedure

Device-specific drivers are set during the hardware detection and configuration phase.

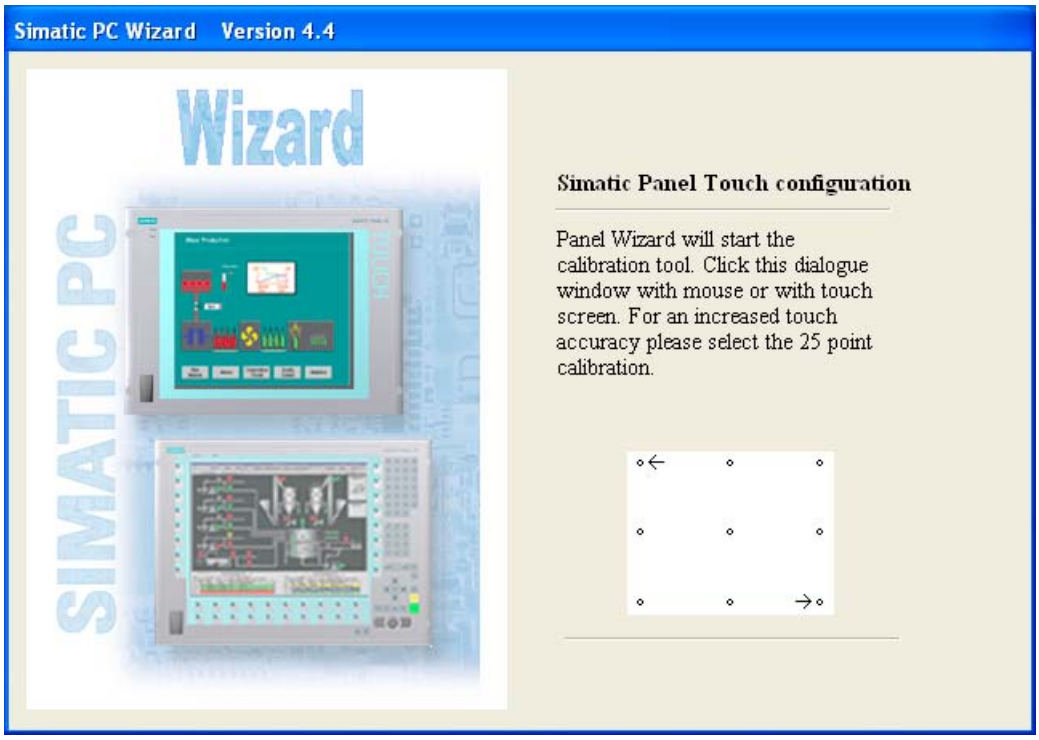


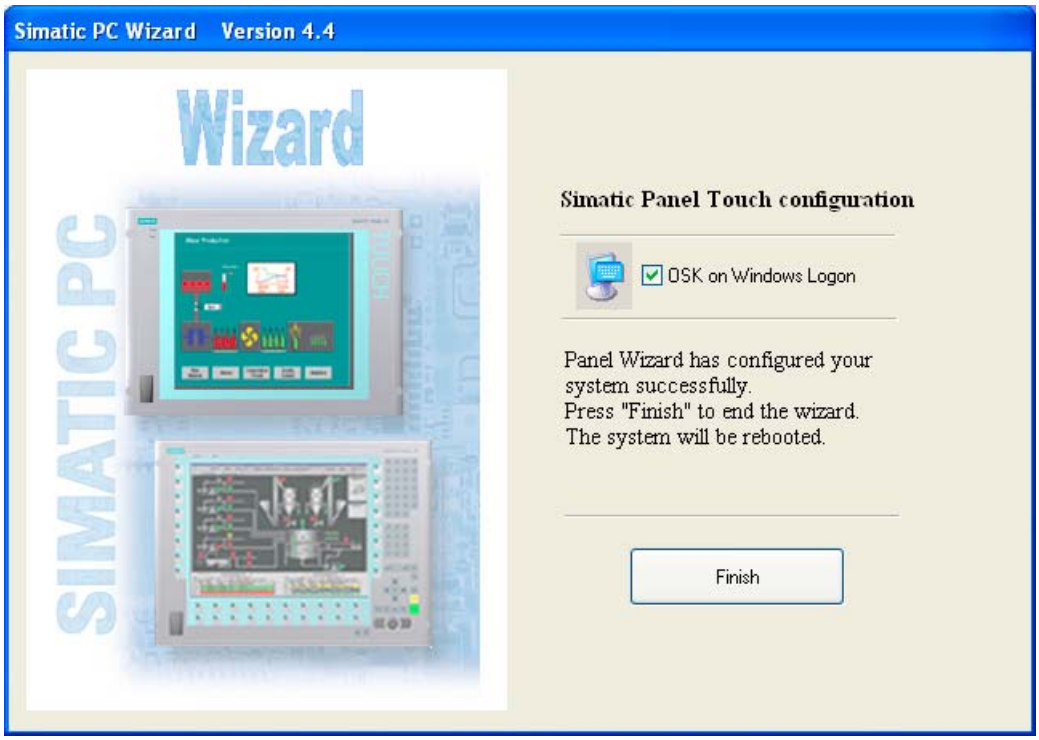
The type of SIMATIC PC is selected and detected automatically.

1.9.4.2 Touch panel configuration

Touch screen calibration

1. Calibrate the touch screen by clicking the wizard.





2. Click "Finish".

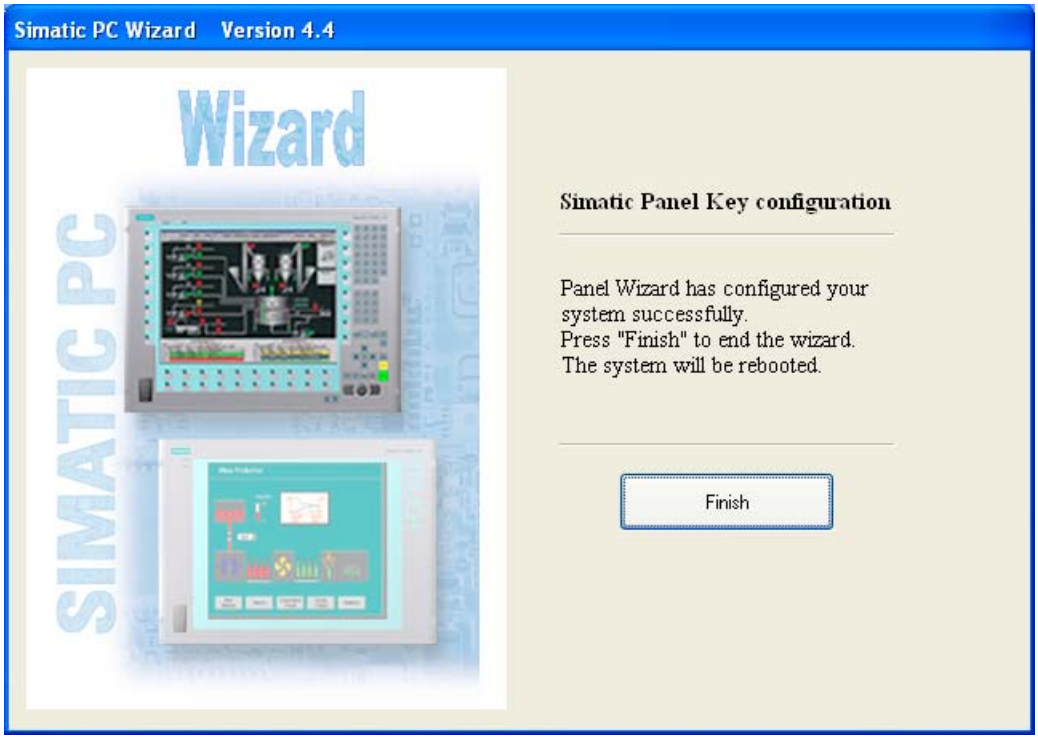
Note

On-screen keyboard (OSK)

- If the "enable" checkbox is selected, the Windows on-screen keyboard is displayed for logon at every program start. You can use this keyboard to enter the administrator password, for example. An external keyboard is then not necessary.
- If you clear the checkbox, the on-screen keyboard is not displayed.

1.9.4.3 Key Panel configuration

1. Follow all dialogs until the end.
2. Click on the button "Finish".



1.9.4.4 Automatic restart

An automatic restart is perfumed after every configuration.

1.9.5 Device with key panel

1.9.5.1 Activating KeyTools

SIMATIC KeyTools is one selection of the applications for SIMATIC Panel PC. These applications allow you to adapt key codes that are sent by the key panel of the control unit. SIMATIC KeyTools consists of the following applications:

- Key code table: Loading and editing of key code tables.
- WinCC hotkey function: WinCC hotkey function activation und deactivation.
- Security features: Lock function that prevents two function keys from being activated simultaneously. This prevents incorrect operations and undefined states of the application program.

Note

For a detailed description of the SIMATIC KeyTools, refer to the help menu and the application description on the Documentation & Drivers DVD.

Opening Keytools

1. Open Keytools with the command **Start > Settings > Control Panel > SIMATIC KeyTools**.
2. Select the desired application and follow the instructions on the screen.

NOTICE
Malfunctions of the user software
For security reasons always use the "Security features". If you deactivate it nevertheless, serious malfunctions of the user software may occur when the additional function keys and softkeys F13 to S16 are used or if own key code tables are used.

1.9.6 Device with touch screen

1.9.6.1 Recalibrating the Touch Screen

If the touch screen does not react as expected when touched, repeat the calibration.

Procedure for standard calibration

1. Select "Start > Programs > UPDD > Settings".

   The "UPDD Console" dialog box opens.

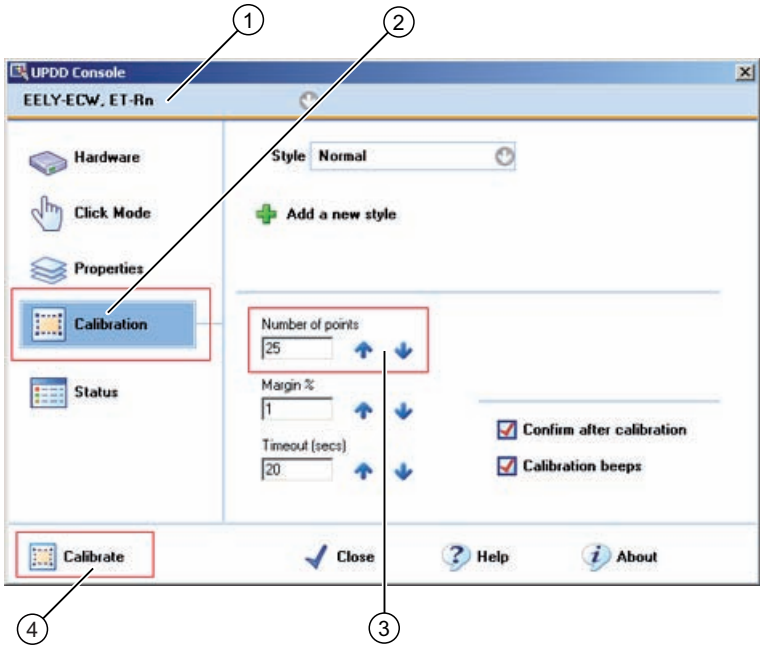


Figure 1-8 Point calibration

2. Select the controller ① you wish to calibrate.
3. Click the "Calibration" tab ②.
4. Select the "Number of points" option with the "25 point calibration" ③.
5. Click "Calibrate" ④.

   The calibration mask is output on the selected display.
6. Quickly touch the corresponding selections one after the other.

   The entry is confirmed by a check mark, the next selection is displayed.
7. Confirm all input prompts (arrows, or crosses in the center) until the complete screen has been calibrated.
8. Finally, confirm the prompt with "Confirm".

Procedure for EEPROM calibration

1. Select "Start > Programs > UPDD > Settings".

   The "UPDD Console" dialog box opens.

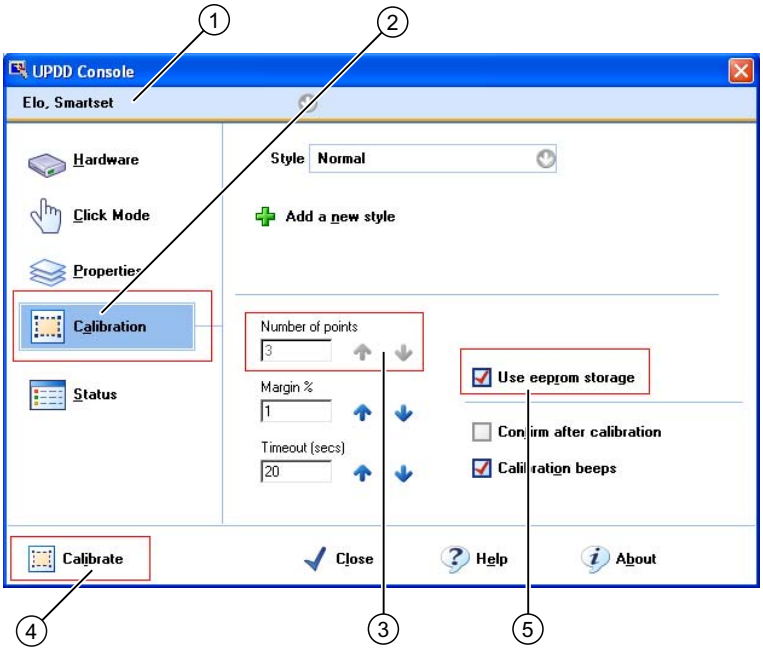


Figure 1-9 Point calibration

2. Select the controller ① you wish to calibrate.
3. Click the "Calibration" tab ②.

   The "Use eeprom storage" ⑤ option is selected by default for touch controllers with EEPROM.

   The "Number of points" option box indicates "3 point calibration" ③.
4. Click "Calibrate" ④.

   The calibration mask is output on the selected display.
5. Quickly touch the corresponding selections one after the other.

   The entry is confirmed by a check mark, the next selection is displayed.
6. Confirm all input prompts (arrows, or crosses in the center) until the complete screen has been calibrated.

Note

If the screen does not respond to touching as expected, check the specified controller (marked in black) in "UPDD Console" and repeat the calibration.

Only an active controller can be calibrated. A removed controller is marked in red.

If 3 point calibration does not suffice for the operator panel, you can clear it in the "Use eeprom storage" option box and use the standard calibration (25 point calibration).

Currently only the Touch Controller "ELO 2216 (USB)" supports EEPROM calibration.

1.9.6.2 Activating the Screen Keyboard

You can operate the device by means of a virtual screen keyboard. You can use it to enter the characters directly on the touch screen or with the mouse.

Starting Touch Input

Start the "Touch Input" application on the desktop. The screen keyboard is displayed.

(1) Button for language selection: German, English, Italian, Spanish, French

1.10 Service and support

Local information

Contain your Siemens representative (http://www.siemens.com/automation/partner) if you have questions about the products described here.

Technical documentation for SIMATIC products

You can find additional documentation for SIMATIC products and systems in the Internet: SIMATIC Guide manuals (http://www.siemens.com/simatic-tech-doku-portal)

Easy shopping at the mall

You can find the online catalog and order system under:
Industrial Automation and Drive Technologies (http://mall.automation.siemens.com)

Training center

All the training options are listed at:
SITRAIN homepage (http://www.sitrain.com)
Find a contact at: Tel. + 49 911 895 3200

Technical support

You can contact technical support for all Industry Automation and Drive Technologies products by:

- Phone: +49 180 5050 222
- Fax: +49 180 5050 223

  (0.14 /min. from the German landline network, deviating mobile communications prices are possible)
- E-mail: support.automation@siemens.com
- Internet:
  Online support request form: (http://www.siemens.com/automation/support-request)

When you contact the customer support, please have the following information for the technician on hand:

- BIOS version
- Order No. (MLFB) of the device
- Installed additional software
- Installed additional hardware

Online Service & Support

Information about the product, Support and Service, right through to the Technical Forum, can be found at: Industry Automation and Drive Technologies - Homepage (http://www.siemens.com/automation/service&support)

After-sales information system for SIMATIC PC / PG

Information about contacts, drivers, and BIOS updates, FAQs and Customer Support can be found at: After-sales information system for SIMATIC PC/PG (http://www.siemens.com/asis)