

Installation and Operating instructions for

Economy built-in Panel PC CP6207-xxxx-0020

Version: 1.0

Date: 2019-09-09



Table of contents

1.	Foreword	3
	Notes on the Documentation	3
	Liability Conditions	3
	Trademarks	3 3 3 3 3 3
	Patent Pending	3
	Copyright	3
	State at Delivery	3
	Delivery conditions	3
	Description of safety symbols	4
	Basic safety measures	5
	Operator's obligation to exercise diligence	6
	Operator requirements	6
2.	Product Description	7
	Appropriate Use	7
	Interfaces	7
	Optional Interface	7
	DVI (Digital Visual Interface)	7
	USB-Interfaces	7
	Network connection	7
	Power supply	7
	Ground connection	7
	Access to the CF-Card and the Battery	8
3.	Installation Instructions	9
٠.	Transport and Unpacking	9
	Transport	9
	Unpacking	9
	Installation of the PC in the control cabinet	10
	Installation in a control cabinet wall	10
	Earthing measures	10
	Mounting of the Panel PC	11
	Power Supply Connection	12
	Beckhoff power supply technology	12
	Pin assignment of the connector	13
		14
	Fitting the cable	
	Material for assembling the connectors	14
	Assembling the connectors	14
	Connecting Power Supply	15
	Cable Cross Sections	15
	Configuration for shutting down the PC PC_ON and Power Status functions	15 15
	UPS output	15
	UPS output function	15
	Wiring diagram	16
	Connecting devices	17
	Connecting devices Connecting cables	17
	Check voltage rating and connect	17
1	Operating Instructions	18
→.		
	Switching the Industrial PC on and off	18
	First switching on and driver installation	18
	Operation	18
	Servicing and maintenance	19
	Cleaning the Industrial PC	19
	Replacing the battery on the motherboard	19
	Servicing	19
	Emergency procedures	19
	Shutting down	19
	Disposal	19

5. UPS Software Components (optional)	20
Installation on the PC	20
Help files	20
6. Troubleshooting	21
Fault correction	21
Beckhoff Support & Service	22
Beckhoff branches and partner companies	22
Beckhoff Headquarters	22
Beckhoff Support	22
Beckhoff Service	22
7. Appendix	
Assembly dimensions	23
Technical data	24
Approvals	24
FCC: Federal Communications Commission Radio Frequency Interference	
Statement	24
FCC: Canadian Notice	24

Foreword

Notes on the Documentation

This description is only intended for the use of trained specialists in control and automation engineering who are familiar with the applicable national standards. It is essential that the following notes and explanations are followed when installing and commissioning these components.

The responsible staff must ensure that the application or use of the products described satisfy all the requirements for safety, including all the relevant laws, regulations, guidelines and standards.

Liability Conditions

The documentation has been prepared with care. The products described are, however, constantly under development. For that reason the documentation is not in every case checked for consistency with performance data, standards or other characteristics. In the event that it contains technical or editorial errors, we retain the right to make alterations at any time and without warning. No claims for the modification of products that have already been supplied may be made on the basis of the data, diagrams and descriptions in this documentation.

All pictures shown in the documentation are exemplary. Illustrated configurations can differ from standard.

Trademarks

Beckhoff[®], TwinCAT[®], EtherCAT[®], Safety over EtherCAT[®], TwinSAFE[®], XFC[®] and XTS[®] are registered trademarks of and licensed by Beckhoff Automation GmbH.

Other designations used in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owners.

Patent Pending

The EtherCAT Technology is covered, including but not limited to the following patent applications and patents: EP1590927, EP1789857, DE102004044764, DE102007017835 with corresponding applications or registrations in various other countries.

The TwinCAT Technology is covered, including but not limited to the following patent applications and patents: EP0851348, US6167425 with corresponding applications or registrations in various other countries.

Copyright

© Beckhoff Automation GmbH & Co.KG.

The reproduction, distribution and utilization of this document as well as the communication of its contents to others without express authorization are prohibited. Offenders will be held liable for the payment of damages. All rights reserved in the event of the grant of a patent, utility model or design.

State at Delivery

All the components are supplied in particular hardware and software configurations appropriate for the application. Modifications to hardware or software configurations other than those described in the documentation are not permitted, and nullify the liability of Beckhoff Automation GmbH & Co.KG.

Delivery conditions

In addition, the general delivery conditions of the company Beckhoff Automation GmbH & Co.KG apply.

CP6207-xxxx-0020 3

Description of safety symbols

The following safety symbols are used in this operating manual. They are intended to alert the reader to the associated safety instructions.



Acute risk of injury!!

If you **do not** adhere the safety advise adjoining this symbol, there is immediate danger to life and health of individuals!



Risk of injury!

If you **do not** adhere the safety advise adjoining this symbol, there is danger to life and health of individuals!



Hazard to individuals!

If you **do not** adhere the safety advise adjoining this symbol, there is obvious hazard to individuals!



Hazard to devices and environment

If you **do not** adhere the notice adjoining this symbol, there is obvious hazard to materials and environment.



Note or pointer

This symbol indicates information that contributes to better understanding.

Basic safety measures

Only switch the PC off after closing the software

Before the Industrial PC is switched off, software that is running must be properly closed.

Otherwise it is possible that data on the storage medium is lost. Please read the section *Switching the Industrial PC on and off.*



Switch off all parts of the equipment, then uncouple the fieldbus

Before opening the housing of the PC, and whenever the PC is being used for purposes other than plant control, such as during functional tests following repair, all parts of the equipment must first be switched off, after which the Industrial PC can be uncoupled from the plant.

Pulling out the fieldbus connection plug uncouples the PC (optional).

Items of equipment that have been switched off must be secured against being switched on again.

The Industrial PC's power supply unit must be supplied with 24V_{DC}.



Do not open the power supply unit while voltage is applied!

The supply voltage must be switched off before the power supply unit housing is opened.



Do not exchange any parts when under power

When components are being fitted or removed, the supply voltage must be switched off.

Fitting work on the Industrial PC can result in damage:

- if metal objects such as screws or tools fall onto operating circuit boards.
- if connecting cables internal to the PC are removed or inserted during operation.
- if plug-in cards are removed or inserted when the PC is switched on.



High Voltage!

Displays used for the control panel's LC-display are operated with a voltage of up to 1000 V, depending on type. For that reason:

The supply voltage must be disconnected before the housing of the Control Panel is opened.

CP6207-xxxx-0020 5

Operator's obligation to exercise diligence

The operator must ensure that

- the Industrial PC is only used for its intended purpose (see chapter *Product Description*).
- the Industrial PC is only operated in a sound condition and in working order (see chapter *Servicing and maintenance*).
- the Industrial PC is operated, maintained and repaired only by suitably qualified and authorized personnel.
- the personnel is instructed regularly about relevant occupational safety and environmental protection aspects, and is familiar with the operating manual and in particular the safety notes contained herein.
- the instruction manual is in good condition and complete, and always available for reference at the place of installation of the Industrial PC.
- none of the safety and warning notes attached to the Industrial PC are removed, and all notes remain legible.
- every user is familiar with all the functions of the software installed on the Industrial PC to which he has access.

National regulations depending on the machine type

Depending on the type of machine and plant in which the Industrial PC is used, national regulations governing the controllers of such machines will apply, and must be observed by the operator. These regulations cover, amongst other things, the intervals between inspections of the controller.

The operator must initiate such inspections in good time.



Do not open the housing of the build-in Panel PC

For technical support contact Beckhoff Service.

Procedure in the event of a fault

In the event of faults at the Industrial PC, the list in the section *Troubleshooting* can be used to determine the measures to be taken.

Operator requirements

Read the operating instructions

Anyone who uses the Industrial PC must have read these operating instructions.

Software knowledge

Every user must be familiar with all the functions of the software installed on the Industrial PC to which he has access.

Product Description

Appropriate Use

The CP6207-xxxx-0020 build-in Panel PC is designed for industrial application in machine and plant engineering. A steel plate housing with aluminum front contains a TFT display with touch screen (optional). The Industrial PC is installed in the front of control cabinets.

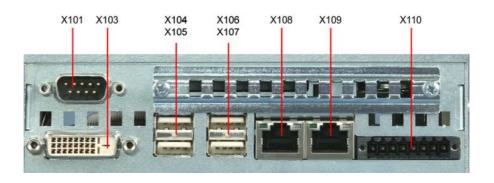


Do not use the Build-in Panel PC in areas of explosive hazard!

The build-in Panel PC must not be used where there is a risk of explosion.

Interfaces

Interfaces



Optional Interface

X101

Optional interface

The Industrial PC can be fitted with an optional interface according to the order option.

DVI (Digital Visual Interface)

X103 DVI out The DVI connection is used for transferring the video signal.

DVI-D standard is supported.

USB-Interfaces

X104 - X107USB out

The four USB interfaces are used for connecting peripheral devices with USB connection. USB2.0 standard is supported.

Network connection

X108 LAN1 The RJ-45 connector allows the PC to be connected to a

10/100/1000BASE-T Local Area Network (LAN).

X109 LAN2 The RJ-45 connector allows the PC to be connected to a 10/100/1000BASE-T Local Area Network (LAN).

Power supply

X110 Power The power supply for the Industrial PC is established via the socket.

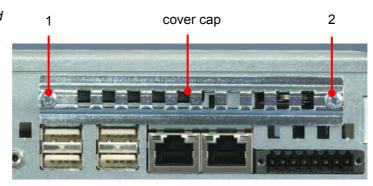
Ground connection

Ground connection

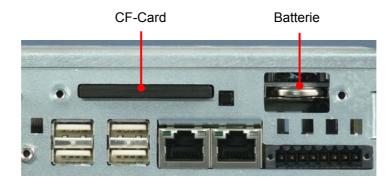
The Industrial PC is grounded via the stud bolt.

Access to the CF-Card and the Battery

Access to the CF-Card and the battery



After solving the two crosshead screws (1) und (2), the cover cap can be removed and allows access to the CF-Card and the battery.



Installation Instructions

Transport and Unpacking

The specified storage conditions must be observed (see chapter *Technical data*).

Transport

Despite the robust design of the unit, the components are sensitive to strong vibrations and impacts. During transport, your Control Panel should therefore be protected from excessive mechanical stress. Therefore, please use the original packaging.



Danger of damage to the unit

If the device is transported in cold weather or is exposed to extreme variations in temperature, make sure that moisture (condensation) does not form on or inside the device.

Prior to operation, the unit must be allowed to slowly adjust to room temperature. Should condensation occur, a delay time of approximately 12 hours must be allowed before the unit is switched on.

Unpacking

Proceed as follows to unpack the unit:

- 1. Remove packaging.
- 2. Do not discard the original packaging. Keep it for future relocation.
- 3. Check the delivery for completeness by comparing it with your order.
- 4. Please keep the associated paperwork. It contains important information for handling the unit.
- 5. Check the contents for visible shipping damage.
- 6. If you notice any shipping damage or inconsistencies between the contents and your order, you should notify Beckhoff Service.

Installation of the PC in the control cabinet

The built-in Panel PC CP6207-xxxx-0020 is designed for mounting in control cabinets in machine and plant engineering applications.

The ambient conditions specified for operation must be observed (see chapter *Technical data*).

Preparation of the control cabinet

The control cabinet wall must be prepared with the required mounting opening for the computer unit according to the PC's dimensions (see chapter *Assembly dimensions*).



Circulation of air

When the unit is installed in an enclosure, adequate space for ventilation and for opening the PC must be provided.

The clearance above and below the housing must be at least 5 cm in order to ensure adequate ventilation of the PC.

Please note the following points during installation of the PC:

- Position the PC in such a way that reflections on the screen are avoided as far as possible.
- Use the position of the screen as a guide for the correct installation height; it should be optimally visible for the user at all times.
- The PC should not be exposed to direct sunlight.
- When the unit is in its mounting position, the ventilation openings must not be obstructed.



Avoid extreme environmental conditions

Extreme environmental conditions should be avoided as far as possible. Protect the PC from dust, moisture and heat.

The ventilation slots of the PC must not be covered.

Installation in a control cabinet wall

Installation in a control cabinet wall

Proceed as follows:

- 1. Insert the PC at the intended control cabinet wall position and protect it from falling out, prior to final mounting.
- 2. Release the clamping levers, turn the clamping levers to the side and retighten the screws (see chapter *Mounting of the Panel PC*).

Earthing measures

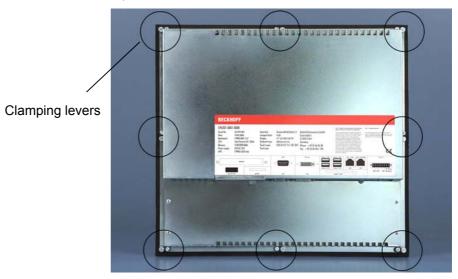
Earthing measures

Earthing connections dissipate interference from external power supply cables, signal cables or cables to peripheral equipment. Establish a low-impedance connection from the earthing point on the PC housing (see chapter *Assembly dimensions*) to the central earthing point on the control cabinet wall, in which the computer is being installed.

Mounting of the Panel PC

Please refer to the chapter *Assembly dimensions* for Panel PC cutout dimensions. Similar pictures.

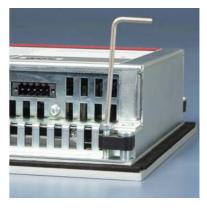
Mounting of the Panel PC



Release clamping levers,

Insert the PC into the cutout.

Release the clamping levers with a No. 2.5 Allen key.



Folding them out

Turn the clamping levers to the side through $90\ensuremath{^\circ}$



and retighten them.

and retighten the screws.



Power Supply Connection

Supplied mains power unit The Industrial PC is fitted with a 24 V_{DC} power supply unit .



Uninterruptible power supply (UPS)

When the Industrial PC is provided with a power supply unit with integrated UPS (order option) you can realize an uninterruptible power supply (UPS) using the battery pack C9900-U330.

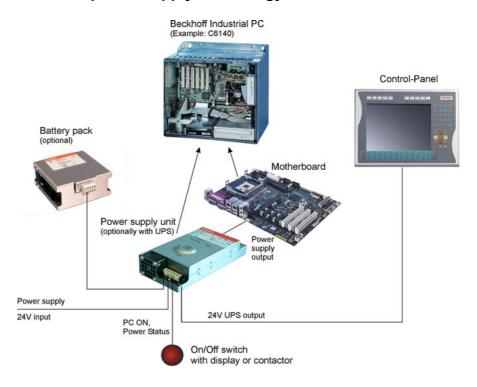


Danger of Explosion!

Danger of Explosion if using other battery packs!

Beckhoff power supply technology

Schematic diagram of power supply unit wirings



Innovative solution for shutting down Industrial PCs

Industrial PCs equipped with a UPS are in actual use frequently switched off by simply turning off the supply voltage. In this case the PC shuts down via the battery. However, over time this reduces the service life of the battery.

The new Beckhoff power supply technology approach addresses this problem and now offers the user the option of switching the PC off without the need for using the battery, thereby reducing the load on the battery.

In addition to the main switch this innovative solution uses an ON/OFF switch for the machine. Basically, the main switch remains switched on and provides the power supply for the PC during shutdown.

Once the PC has shut down, the PC power supply unit issues a signal to indicate that the process is complete and that the main voltage can be switched off. This can be done manually via a signal lamp connection or via a contactor. With this solution the main switch generally only has to be switched off if the control cabinet has to be opened.

In order to maintain a screen display for the Industrial PC in the event of a power failure, the power supply unit is equipped with a UPS output for connecting a Control Panel. This enables a power failure to be visualized and displayed to the user. Once the PC has shut down, the UPS output is switched off in order to avoid total discharge of the battery.

For a detailed functional description please refer to section *Connecting Power Supply*.

Pin assignment of the connector

The power supply and the external circuit for switching the Industrial PC on and off are connected via the 8-pole plug connector .

Pin assignment for connecting the switch, the power supply and the battery pack (optional)



Pin	Function		
1	-	Battery Pack	
2	+	(with UPS)	
3	UPS+ (Output)		
4	(b)		
5	-	24 V DC	
6	+	Power Supply	
7	PC_ON		
8	Power-Status		

Fitting the cable

Wiring in accordance with wiring diagram

Fit the cables for the power supply of the Industrial PC, the connection of the battery pack as well as the connection of the power-switch in accordance with the wiring diagram, using the included material for assembling the connectors.

Material for assembling the connectors

Material for assembling the connectors



Plug connector 8-pole, Strain relief housing with lacing cord

Assembling the connectors

Conductive cross-section

The connector is specified for 16 A and can lift conductive cross-sections until 1.5 mm².

Fitting the connector to the cable

So the connector is fitted to the cable:

- 1. Strip insulation from the cable ends (Length of stripped conductor is 8 9 mm).
- 2. Screw together the cable ends in the 8-pole plug connector in accordance with wiring diagram.

Applying the strain relief



Thread the lacing cord into that lower part of the strain relief housing.

Putting in the plug connector



Put the plug connector into that lower part of the strain relief housing.

Tighten the lacing cord and pinch off

Tighten the lacing cord and pinch of the plastic strap.

Fixing the upper part of the strain relief housing



Fix the upper part of the strain relief housing by snapping it onto the lower part.

Connecting Power Supply

The external wiring consists of the connection of the power supply, the battery pack (optional) and the connection of customized components for shutting down the PC.

Cable Cross Sections

Note cable cross sections, avoid voltage drop!

For the connection of the power supply, wiring with a cable-cross-section of 1.5 mm² must be used.

With bigger distances between voltage source and PC, you take the voltage drop as a function of the cable-cross-section as well as voltage fluctuations of your distribution voltage into account, so that is secured that the voltage doesn't fall under 22 V at the power supply.



Insert fuse

The power supply must be protected with maximum 16 A.

Configuration for shutting down the PC

The connections for shutting down the Industrial PCs are established via the **PC_ON** input and the **Power Status** output.

PC_ON and Power Status functions

- If the **PC_ON** input is connected to 24 V via a switch, the PC shuts down according to the rules. The PC_ON signal is inverted, i.e. the PC shuts down if the 24 V connection is live.
- If the **PC_ON** input is *NOT* connected by the user, the PC can be booted in the familiar way by connecting the supply voltage and shut down via the battery by switching off the supply voltage.



Service life of the rechargeable battery

This procedure significantly reduces the service life of the rechargeable battery and should therefore not be used.

 Once the PC has shut down, the Power Status output is switched from 24 V to 0 V. Via this output a signal lamp can be connected or a contactor for de-energizing the whole system. The maximum load for the Power Status output is 0.5 A and a suitable fuse should be provided.

UPS output

In order to maintain a screen display for the PC in the event of a power failure, the power supply unit is equipped with a **UPS output** for connecting a Control Panel. The maximum load for the output is 1.4 A.

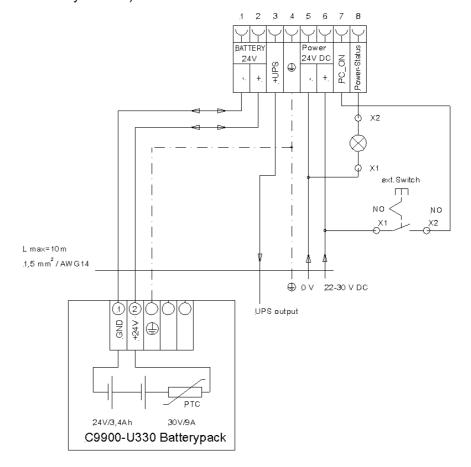
UPS output function

- The 24 V DC connection at the UPS output is live even after a power failure. The maximum load is 1.4 A.
- Once the PC has been de-energized via the UPS software, the UPS output is switched to 0 V. Any connected panel is thus switched off, and total discharge of the rechargeable battery is prevented.

Wiring diagram

Wiring according to the wiring diagram (the circuit of PC_ON and Power-Status is symbolical):

Wiring diagram external switch and power supply





Connection of the Battery Pack and UPS Output

Connection of the Battery Pack and UPS Output only in combination with integrated UPS (order option).

Connecting devices



Power supply plug

The power supply plug must be withdrawn!

Please read the documentation for the external devices prior to connecting them.

During thunderstorms, plug connector must neither be inserted nor removed.

When disconnecting a plug connector, always handle it at the plug. Do not pull the cable!

Connecting cables

The connections are located at the top of the Industrial PC and are documented in the *Product Description* chapter.

When connecting the cables to the Industrial PC, proceed according to the following sequence:

- Switch off all the devices that are to be connected.
- Disconnect all the devices that are to be connected from the power supply.
- Connect all the cables between the Industrial PC and to the devices that are to be connected.
- Connect all data transfer cables (if present) to the appropriate plug-in receptacles of the data/telecommunication networks.
- Reconnect all devices to the power supply.

Check voltage rating and connect

Fitted with the 24 V_{DC} power supply unit:

- 1. Check that the external power supply is providing the correct voltage.
- 2. Insert the power supply cable that you have assembled (see chapter *Fitting the cable*) into the Industrial PC's power supply socket. Then connect it to your external 24 V power supply.



Use same type of rechargeable battery

If a 24 V UPS is installed, the same type of rechargeable battery must be used.

Operating Instructions

Switching the Industrial PC on and off

Switch on

The Industrial PC does not have its own mains switch. The Industrial PC will start when the equipment is switched on, or when it is connected to the power supply.

Shutting down and switching off

When the plant is switched off, or when it is disconnected from its power supply, the Industrial PC will be switched off.

Control software such as is typically used on Industrial PCs permits various users to be given different rights. A user who may not close software may also not switch the Industrial PC off, since data can be lost from the storage medium by switching off while software is running.



First shut down, then switch off the PC

If the Industrial PC is switched off as the software is writing a file to the storage medium, the file will be destroyed. Control software typically writes something to the storage medium every few seconds, so that the probability of causing damage by switching off while the software is running is very high.



Switch off power supply

When you have shut down the Industrial PC, you have to switch off power supply for at least 10 seconds before rebooting the system.

After resetting power supply the PC will start booting automatically.

First switching on and driver installation

When you switch on the Industrial PC for the first time, the pre-installed operating system (optional) will be started. In this case, all the required drivers for any additional, optional hardware components ordered with the PC will already have been installed.

If the PC was ordered without operating system, you have to install the operating system and the driver software for any auxiliary hardware yourself. Please follow the instructions in the documentation for the operating system and the additional devices.

Operation



The touch screen may only be actuated by fingertips or with the touch screen pen

The touch screen may only be actuated by finger tips or with the touch screen pen. The operator may wear gloves but there must be no hard particles such as metal shavings, glass splinters embedded in the glove.

Servicing and maintenance

Cleaning the Industrial PC



Disconnect from power supply

Switch off the Industrial PC and all connected devices, and disconnect the Industrial PC from the power supply.

The Industrial PC can be cleaned with a soft, damp cloth. Do not use any aggressive cleaning materials, thinners, scouring material or hard objects that could cause scratches.

The front of the Panel can be cleaned with a soft, damp cleaning cloth. Do not use any aggressive cleaning materials, thinners, scouring material or hard objects that could cause scratches.

Replacing the battery on the motherboard

A used battery on the motherboard has to be replaced according to the rules of the board manufacturer. See also chapter *Access to the CF-Card and the Battery*.



Danger of Explosion!

Danger of Explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Servicing

The build-in Panel PC requires no maintenance.



Do not open the housing of the build-in Panel PC

For technical support contact Beckhoff Service.

Emergency procedures

In case of fire, the Industrial PC should be extinguished with powder or nitrogen.

Shutting down

Disposal

Dismantle the Industrial PC

The device must be fully dismantled in order to dispose of it. The housing can be sent for metal recycling.

Observe national electronics scrap regulations

Electronic parts such as lamps and circuit boards must be disposed of in accordance with national electronics scrap regulations.

UPS Software Components (optional)

Installing the UPS driver software

For operating the power supply unit as a UPS, the UPS driver software and the associated UPS driver must be installed on the Industrial PC.

On delivery of the Beckhoff Industrial PC with operating system the software is already installed. Should the software not be installed on your PC, the drivers can be installed from the driver CD provided.

Installation on the PC

Installation

To install the UPS driver software, execute file

Beckhoff_UPS_vx.xx.xx.exe from the subdirectory of **UPS\...** from the CD provided on the Industrial PC (Driver-archive for the Industrial-PC, C9900-S700-xxxx).

The program is self-extracting and will guide the user through the installation routine.

Help files

Beckhoff Information System

The driver software comes with a detailed help function.

The help files can be called up either directly from the configuration register by clicking the Help button, or under via *Start > Programs > Beckhoff > UPS software components*.

Troubleshooting



Pixel errors

Pixel errors in the TFT display are production-caused and represent no complaint-reason!

Fault correction

Fault	Cause	Procedure
Nothing happens after the Industrial PC has been switched on	No power supply to the Industrial PC	Check power supply cable.
	Other cause	Call Beckhoff Service
The Industrial PC does not boot	Setup settings are incorrect	Check the setup settings
fully	Other cause	Call Beckhoff Service
Computer boots, software starts, but control does not operate correctly	Cause of the fault is either in the software or in parts of the plant outside the Industrial PC	Call the manufacturer of the machine or the software
CF-Card access error	Faulty CF-Card	Check CF-Card in another device
		Call Beckhoff Service
USB error while TwinCAT access via USB	Cycle time in TwinCAT is set on 10 ms (standard)	Increase the cycle time up to 50 ms till 80 ms
The Industrial PC functions only partially or only part of the time, e.g. no or dark picture, but memory drive responds when switching on	Defective components in the Industrial PC	Call Beckhoff Service

CP6207-xxxx-0020 21

Beckhoff Support & Service

Beckhoff and their partners around the world offer comprehensive support and service, guaranteeing fast and competent assistance with all questions related to Beckhoff products and system solutions.

Beckhoff branches and partner companies

Please contact your Beckhoff branch office or partner company for <u>local support and service</u> on Beckhoff products!

The contact addresses for your country can be found in the list of Beckhoff branches and partner companies: www.beckhoff.com

You will also find further documentation for Beckhoff components there.

Beckhoff Headquarters

Beckhoff Automation GmbH & Co. KG Huelshorstweg 20 33415 Verl Germany

Phone: +49(0)5246/963-0 Fax: +49(0)5246/963-198 e-mail: info@beckhoff.com

Beckhoff Support

Beckhoff offers you comprehensive technical assistance, helping you not only with the application of individual Beckhoff products, but also with wideranging services:

- worldwide support
- design, programming and commissioning of complex automation systems
- · training program for Beckhoff system components

Hotline: +49(0)5246/963-157 Fax: +49(0)5246/963-9157 e-mail: support@beckhoff.com

Beckhoff Service

The Beckhoff service center supports you in all matters of after-sales service:

- on-site service
- repair service
- spare parts service
- hotline service

Hotline: +49(0)5246/963-460 Fax: +49(0)5246/963-479 e-mail: service@beckhoff.com

Quote the project number

If servicing is required, please quote the **project number** of your product.

Appendix

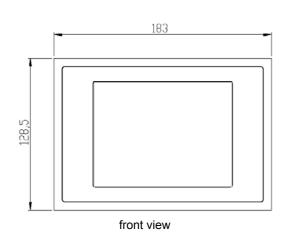
Assembly dimensions

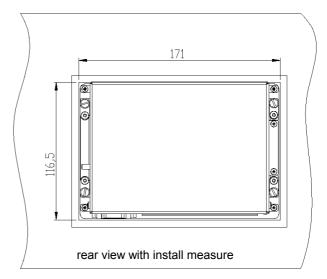


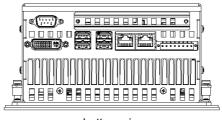
Notice mounting orientation

The assembly of the unit must take place with the orientation diagrammed here.

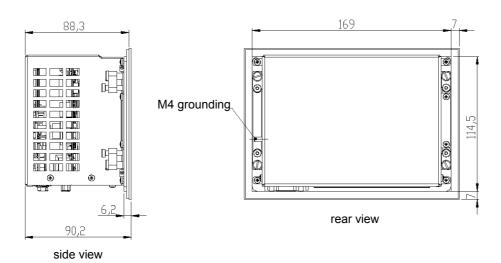
All dimensions are in mm.







bottom view



CP6207-xxxx-0020 23

Technical data

Dimensions (W x H x D): see chapter Assembly dimensions.

Operation in areas that are subject to explosion hazard

The Industrial PC must not be used where there is a risk of explosion.

The following conditions must be observed during operation:

Environmental conditions Ambient temperature: 0 to 55°C

Atmospheric humidity: Maximum 95%, non-condensing

Shock resistance Sinusoidal vibration:

(EN 60068-2-6) 10 to 58 Hz: 0.035 mm

58 to 500 Hz: $0.5 \text{ G} (\sim 5 \text{ m/ s}^2)$

Impact:

(EN 60068-2-27) 5 G (~ 50 m/ s²), duration: 30 ms

Protection class Front side: IP65

Rear side: IP20

Power supplySupply voltage: 24 V_{DC} (22 - 30 V $_{DC}$) 24 V_{DC} power packPower consumption:approx. 29 W

If operated with UPS: additional 30 W (while charging)

additional 44 W (UPS-output max.)

EMC compatibility Resistance to interference: conforms to EN 61000-6-2

Emission of interference: conforms to EN 61000-6-4

Transport and storage The same values for atmospheric humidity and shock resistance are to be

observed during transport and storage as in operation. Suitable packaging of the Industrial PC can improve the resistance to impact during transport. The ambient temperature during storage and transport must be between

-20°C and +65°C.



Pixel errors

Pixel errors in the TFT display are production-caused and represent no complaint-reason!

Approvals

FCC: Federal Communications Commission Radio Frequency Interference Statement

FCC Approval for USA

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC: Canadian Notice

FCC Approval for Canada

This equipment does not exceed the Class A limits for radiated emissions as described in the Radio Interference Regulations of the Canadian Department of Communications.