BARTEC



User Manual

POLARIS Web Client/Remote PC 17-71V3-....





User Manual

POLARIS Web Client/Remote PC 15"/ 19.1" Type 17-71V3-....

ATEX Zone 1

Document no. 11-71V3-7D0002 Status: 26. January 2011

Technical data subject to change without notice!

Contents	Page	
English	1 - 37	
Appendix	Declaration of Conformity	

BARTEC GmbH Max-Eyth-Straße 16 97980 Bad Mergentheim Germany

Phone: Fax: +49 7931 597-0 Contact: +49 7931 597-119 info@bartec.de



Notes on this manual



Read carefully before putting the devices into operation. The user manual is a constituent part of the product and must be kept in the direct vicinity of the device and accessible at all times to installation, operating and maintenance personnel.

It contains important notes, safety instructions and test certificates which are necessary for perfect functioning when the devices are being operated and handled. It is written for technically qualified personnel.

Familiarity with and the technically perfect implementation of the safety instructions and warnings described in this manual are preconditions for safe installation and commissioning. The safety notes and warnings given in this documentation are given in a general way and only qualified personnel will have the necessary specialised know-how to interpret and implement them correctly in specific cases.

Qualifications of the personnel working with the devices

The user manual is written for all people who carry out assembly, installation, commissioning and service work on the product, whereby the directives and standards 99/92/EC, EN 60079-17, EN 60079-19 for the gas area and EN 61241-17 and EN 61241-19 for the dust area must be observed.

Changes to the document

BARTEC reserves the right to alter the contents of this document without notice. No guarantee is given for the correctness of the information. In case of doubt, the German safety instructions shall apply because it is not possible to rule out errors in translation or in printing. In the event of a legal dispute, the "General Terms and Conditions" of the BARTEC group shall apply in addition.

The respective up-to-date versions of data sheets, manuals, certificates, EC Declaration of Conformity may be downloaded from the "Ex Visualisation and Communication Systems" product page at <u>www.bartec-group.com</u> or ordered directly from BARTEC GmbH.

Handing the Product

The documents are currently available in German and English.

The product described in this manual has been tested and left the factory in perfect condition as regards meeting safety requirements.

To maintain this condition and ensure that this product operates perfectly and safely, it may be used only in the manner described by the manufacturer. Appropriate transportation, suitable storage and careful operation are also essential for the perfect and safe operation of this product.



Safety Instructions



Read carefully before putting the devices into operation. Safety instructions and warnings are specially highlighted in this manual and marked by symbols.

The safety instructions and warnings are assigned to the individual work steps. Careful handling and consistent observation of the instructions will prevent accidents, personal injuries and damage to property.

The adherence to all directions and safety instructions in this manual is a precondition for safe working and the correct handling of the device.

The graphic representations in these instructions serve to show the information being described and are not necessarily true to scale and they may deviate slightly from the actual construction of the device.

Marking

Particularly important points in these instructions are marked with a symbol:



Non-observance leads to death or serious physical injury. The necessary safety measures must be taken.



Warning of damage to property and financial and penal disadvantages (e.g. loss of guarantee rights, liability etc.).



Important instructions and information on preventing disadvantageous behaviour



Important instructions and information on effective, economical and environmentally compatible handling.

POLARIS Web Client/Remote PC 17-71V3-....



1.	Product Description	.1
	1.1 Definition	
	1.2 Use for the Intended Purpose	
2.	Technical Data	
	2.1 Explosion Protection	
	2.2 Characteristics	
	 2.3 Characteristics data for the POLARIS Web Client/Remote PC 19.1" 2.4 Characteristics data for the POLARIS Web Client/Remote PC 15" 	
	 2.4 Characteristics data for the POLARIS Web Client/Remote PC 15" 2.5 Characteristics Data for the Keyboard 	
	2.6 Characteristics Data Finger Mouse, Trackball and Touchpad	
	2.6.1 Finger mouse	
	2.6.2 Trackball	
	2.6.3 Touchpad	. 7
	2.7 Product Marking	. 8
3.	Safety Instructions	. 9
4.	Assembly and Installation	
	4.1 Schematic diagram	
	4.2 Mechanical installation	
	4.2.1 Recommended enclosure	
	4.2.2 Special installation conditions	
	4.2.3 Cover of Ex i terminal compartment	
	4.3.1 Installation in wall cut-out	
	4.3.2 Installation in stainless steel enclosure	
	4.4 Terminal assignment	
	4.4.1 Terminal compartment Ex e	
	4.4.2 Terminal compartment Ex i	
	4.4.3 Terminal assignment in conformance to T568B	
	4.5 EMC (Electromagnetic Compatibility)	
	4.5.1 Note	
	4.5.2 Interference suppression 4.5.3 Shielding	
	4.5.4 Connection of shielding	
	4.5.5 Examples of how shielding can be connected	
	4.5.6 Connecting the Ethernet cable to the POLARIS Web Client/Remote PC	
5.	Commissioning	20
6.	Remote Desktop Configuration	
0.	6.1 Configuration of the host computer by the example Windows XP	
	6.2 Quick Start	
	6.3 "Remote Desktop Connection" Dialog Box	22
	6.4 "Log on to Windows" Dialog Box	
	6.5 Optional settings for the POLARIS Web Client/Remote PC	
	6.6 Logging onto a number of different host computers	
7.	Troubleshooting	
8.	Touch Screen	
	8.1 Key to the touch screen symbols in the system tray	
9.	Order Numbers	
10.	Accessories	27
11.	Maintenance, Inspection, Repair	28
12.	Disposal	29
13.	Dispatch and Packaging Instructions	
14.	Additional information	
171		

Appendix: EC-Declaration of Conformity



1. **Product Description**

1.1 Definition

The **POLARIS Web Client/Remote PC 15" and 19.1"** is a display with keyboard and mouse, with which a PC in the safe area can be operated in the hazardous area, Zone 1.

The POLARIS Web Client/Remote PC series offers the user the possibility of controlling other computers by means of Windows RDP (Remote Desktop Protocol) or, in connection with the **BMS-Graf-pro V7**, taking over the function of an operator terminal.

The devices are also available as turn-key system solutions in stainless steel enclosures for mounting on walls, ceilings or floors.



The POLARIS Web Client/Remote PC 19.1" screen is a TFT display with SXGA resolution (1280 x 1024 pixels) and the POLARIS Web Client/Remote PC 15" screen has XGA resolution (1024 x 768 pixels). They are characterised by outstanding brilliance and a very large reading angle.

A keyboard, touchpad, track ball and finger mouse are available.

A touchscreen is available as an option for the POLARIS Web Client/Remote PC 15" and the POLARIS Web Client/Remote PC 19.1".

1.2 Use for the Intended Purpose

The POLARIS Web Client/Remote PC has been constructed in conformance to the latest technical developments and the recognised safety regulations. Nevertheless, its use can still cause injury and even fatal injury to the user and damage to the device and other property.

The POLARIS Web Client/Remote PC has been specially developed for use in the hazardous area of Zones 1 and 2 and also for Zones 21 and 22.

The manufacturer will not be liable for any resulting damage. The user alone bears the risk. Use for the intended purpose also requires following the instructions in the user manual. The POLARIS Web Client/Remote PC may be used and maintained only by people who are familiar with it and have been instructed about the risks involved.



2. Technical Data

2.1 Explosion Protection

Туре	17-71V3
Ex protection type (Zone 1)	⟨€x⟩ II 2 G Ex e q [ib] IIC T4
	⟨€x⟩ II 2 D Ex tD A21 IP6X T80°C
Product marking	CE 0044
Certification	IBExU05ATEX1117 X
Standards	EN 60079-0:2004IEC 60079-5:2005EN 60079-7:2003IEC 60079-11:2005EN 61241-0:2004EN 61241-1:2004EN 61000-6-2:2001EN 61000-6-4:2001EN 60950-1:2005EN 61000-6-4:2001
Directives	94/9/EG 2004/108/EG

2.2 Characteristics

Construction		 Front-panel installation optional system solution in stainless steel
		enclosure for wall, floor or ceiling mounting
Basis		LX 800 processor with 500 MHz
Connection		Through local network 10/100 MBit
Interface		 PS/2 for mouse and keyboard USB Ex i for BARTEC USB Ex I memory-stick USB Ex e to connect an external USB device
Optional		Touchscreen for 15" and 19.1"
Precondition for ba	se station	A computer that supports Windows RDP must be connected to the network.
Supply voltage		AC 110 V to 230 V ± 10%, 50 Hz to 60 Hz
Rated voltage		AC 90 V to 253 V, 50 Hz to 60 Hz
Max. power consur	nption	P _{max} <50 W
Storage and transport temperature Cut-in and operating temperature		-20 °C to + 50 °C
		0 °C to + 50 °C
Humidity		5 to 95 % non-condensing
Vibration		0.7 G/1 mm; 5 Hz - 500 Hz pulse in all 3 axes
Shock		15 G, 11 ms pulse in all 3 axes
Material	Front side	Polyester foil on anodised aluminium plate (Conditionally UV-resistant)
	Rear side	Sheet steel bichromated
Protection class	Front side Rear side	IP65 IP54
Below +10 °C the	unit has to be hea	ted in order to guarantee the lifetime of the

backlight illumination

2.3 Characteristics data for the POLARIS Web Client/Remote PC 19.1"



19.1" TFT graphic display
SXGA resolution 1280 x 1024 pixels
16.2 million colours
Brightness 300 cd/m ²
Visible area approx. 376 mm x 301 mm
Contrast 1300:1
Anti-reflection coating glass pane
Optional touch screen
498 mm x 400.5 mm x 135 mm
484 mm x 386.5 mm ± 0.5 mm
approx. 33 kg
CFL technology Service life approx. 40,.000 hours at +25 °C

2.4 Characteristics data for the POLARIS Web Client/Remote PC 15"



Display	15" TFT graphic display
	XGA resolution 1024 x 768 pixels
	262,144 colours
	Brightness 400 cd/m ²
	Visible area approx. 304 mm x 228 mm
	Contrast 400:1
	Anti-reflection coating glass pane
	Optional touch screen
Dimensions	411 mm x 332 mm x 135 mm
Wall cut-out	394.5 mm x 315.5 mm ± 0.5 mm
Weight	approx. 23 kg
Backlight illumination	CFL technology Service life approx. 40;000 hours at +25 °C



2.5 Characteristics Data for the Keyboard



Туре	17-71VZ-40**
Ex protection type	⟨Ex⟩ II 2 G Ex e q [ib] IIC T4
	⟨Ex⟩ II 2 D Ex ibD A21 T120°C
Certification	IBExU05ATEX1117 X
Standards	EN 55022:2006 + A1:2007 KI. A EN 55024:1998 + A1:2001 + A2:2003 EN 61000-6-2:2005 EN 61000-6-4:2007 EN 61241-0:2006 EN 61241-1:2004
Type of protection (front side)	IP65
Design	Front-panel fitting
Material	Polyester foil on aluminium plate (conditionally UV-resistant)
Dimensions (length x width)	420 mm x 170 mm
Wall cut-out	391 mm x 140 mm
Mounting depth	18 mm
Weight	approx. 700 g

Dimensions and wall cut-out for keyboard (mm)



2.6 Characteristics Data Finger Mouse, Trackball and Touchpad

2.6.1 Finger mouse



Туре	17-71VZ-1000
Ex protection type	⟨€x⟩ II 2 G Ex e q [ib] IIC T4
	⟨€x⟩ II 2 D Ex ibD A21 T120°C
Certification	IBExU05ATEX1117 X
Standards	EN 55022:2006 + A1:2007 KI. A EN 55024:1998 + A1:2001 + A2:2003 EN 61000-6-2:2005 EN 61000-6-4:2007 EN 61241-0:2006 EN 61241-1:2004
Type of protection (front side)	IP65
Design	Front-panel fitting
Material	Polyester foil on aluminium plate (Conditionally UV-resistant)
Dimensions (length x width)	130 mm x 170 mm
Wall cut-out	100 mm x 140 mm
Mounting depth	15 mm
Weight	approx. 270 g

2.6.2 Trackball



Туре	17-71VZ-2000
Ex protection type	⟨E͡x⟩ II 2 G Ex e q [ib] IIC T4
	⟨E͡⟩ II 2 D Ex ibD A21 T120°C
Certification	IBExU05ATEX1117 X
Standards	EN 55022:2006 + A1:2007 KI. A EN 55024:1998 + A1:2001 + A2:2003 EN 61000-6-2:2005 EN 61000-6-4:2007 EN 61241-0:2006 EN 61241-1:2004
Type of protection (front side)	IP65
Design	Front-panel fitting
Material	Polyester foil on aluminium plate (Conditionally UV-resistant)
Dimensions (length x width)	130 mm x 170 mm
Wall cut-out	100 mm x 140 mm
Mounting depth	43 mm
Weight	approx. 500 g



2.6.3



17-71VZ-3000
⟨€x⟩ II 2 G Ex e q [ib] IIC T4
⟨€x⟩ II 2 D Ex ibD A21 T120°C
IBExU05ATEX1117 X
EN 55022:2006 + A1:2007 KI. A EN 55024:1998 + A1:2001 + A2:2003 EN 61000-6-2:2005 EN 61000-6-4:2007 EN 61241-0:2006 EN 61241-1:2004
IP65 (front side)
Front-panel fitting
Polyester foil on aluminium plate (Conditionally UV-resistant)
130 mm x 170 mm
100 mm x 140 mm
15 mm
approx. 250 g

Dimensions and wall cut-out for mouse, trackball and touchpad (mm)





2.7 Product Marking







3. Safety Instructions



Danger!

DANGER FROM ELECTROSTATIC CHARGING

- The POLARIS Web Client/Remote PC must be connected to earth potential.
 - To avoid the risk of static charging, do not clean the POLARIS Web Client/Remote PC with a dry cloth.
 - Do not mount in a direct stream of particles.

The device is factory-sealed. Do not open it! The device may be opened in the factory only!

- It is essential to adhere to the safety and accident-prevention rules that are relevant to the respective application.
- Protect the device from impact effects! Do not expose the equipment to corrosive/ aggressive liquids, vapours or mist! If the device manlfunctions or the enclosure is damaged, take it out of the hazardous area immediately and bring it into the safe area.



- Put the device out of operation immediately also if you suspect that it can no longer be operated safely on account of harmful effects or general irregularities (e.g. penetration of water, fluids and the effects of temperatures that are outside the specified range, etc.).
- The POLARIS Web Client/Remote PC must be put out of operation immediately if its glass pane is damaged!
- Only operate the device if it is mounted securely.
- It must be possible at all times to disconnect the devices from the voltage supply (in fixed installations by means of an all-pole mains isolating switch or fuse).
- It must be ensured that the supply voltage agrees with the specifications in the manual and the tolerances must be observed. Malfunctioning cannot be ruled out if levels exceed or drop below the specified tolerances.



- If there is a power failure or if the power supply is interrupted, make sure the system has not been put into a dangerous, undefined condition.
- EMERGENCY STOP mechanisms must remain effective throughout all modes and states of operation.



- Connection cables (particularly data transmission cables) must be selected and laid in a way that ensures that capacitive and inductive interference will not adversely affect the equipment. Appropriate measures must be taken to handle line interruptions to prevent any undefined states occurring.
- Wherever malfunctioning can cause material damage or personal injuries, additional external safety circuits must be provided (e.g. limit switch, mechanical interlocking devices etc.).



4. Assembly and Installation

Before assembling the device, make sure you have all the components and documents.

•	•
Scope:	1 x POLARIS Web Client/Remote PC
	1 x Holding clamp
	1 x User manual
Optional:	Keyboard, mouse, track ball, touchpad enclosure, stand and wall-mounting bracket
Not included:	Assembly material, stiffening frame, cable for voltage supply and data line



The POLARIS Web Client/Remote PC must be connected, assembled and disassembled by qualified personnel who are authorised and trained to assemble electrical components in hazardous areas.



We recommend setting up the complete system under laboratory conditions and testing it before it is permanently installed. If a long connection cable is not available, please use a patch cable to test the basic functions.

4.1 Schematic diagram





4.2 Mechanical installation



Make sure the POLARIS Web Client/Remote PC is installed on a load-bearing and stable base. It must be fixed in place with suitable mounting material.

Risk of accident! As the device is heavy and difficult to handle, 2 people are needed to assemble/disassemble it.

For a good transmission of contact pressing force, a stiffening frame (not included in the scope of supply) is placed between the holding clamps (included in the scope of supply) and the enclosure material. This ensures an even transmission of power.

- The screws on the holding clamp must be tightened slightly.
- Check the display bearings and the sealing.
- Tighten the clamping screws to ensure that the POLARIS Web Client/Remote PC is sealed adequately.

4.2.1 Recommended enclosure

Stainless steel enclosure with a wall thicknesses as of 2 mm, whereby the stiffening frame must be used between the holding clamps and the enclosure material.

Stiffening frame for maintaining the IP65 type of protection for:

POLARIS Web Client/Remote PC 19.1"	05-0205-0010
POLARIS Web Client/Remote PC 15	05-0205-0009

4.2.2 Special installation conditions

To maintain the IP degree of protection (= IP54 when installing in 2G enclosures with Ex-e type of protection [e.g. controls] and = IP6X when installing in 2D enclosures in areas with combustible types of dust with the protection by enclosure type of protection), the stiffening frame must be used when affixing to the front.

4.2.3 Cover of Ex i terminal compartment

When using an outer enclosure with at least IP 20, the cover for the Ex-i compartment can be dispensed with.



4.3 Mounting

Select the mounting location on the basis of the following criteria:

- choose the optimum height for operating the device
- ensure good lighting conditions for a perfectly legible display
- do not mount in direct proximity to switching or current changing devices.

4.3.1 Installation in wall cut-out

Insert the POLARIS into the wall cut-out. If necessary, place the stiffening frame over the POLARIS from the back.

Use the M4x12 screws (included in the scope of supply) to fasten the holding clamps to the POLARIS and tighten the clamping screws evenly.

Make sure the seal is positioned correctly between the POLARIS and the mounting surface.



4.3.2 Installation in stainless steel enclosure

The POLARIS Web Client/Remote PCs are available as a turn-key system solution in the stainless steel enclosure for wall or floor mounting. (See chapter 10 for "accessories".)





It is important to rule out any highly energetic charging mechanisms at the user interface of the POLARIS Web Client/Remote PC or the keyboard (e.g. pneumatic particle transport).

- 1. Preparation for voltage and data cabling
- 2. Option of conducting cables through the flange or through a side opening near the flange through the pipe to the POLARIS Web Client/Remote PC.
- 3. Drill holes for the holders for wall mounting or floor mounting in accordance with the drilling pattern.
- 4. Fasten the holder to the wall or floor.
- 5. Put the POLARIS Web Client/Remote PC onto the holder and fasten it with 2 hexagonal socket-head cap screws and a hand knob screw.



Connect the POLARIS Web Client/Remote PC to the PE conductor.

Ĭ

Note



Terminal assignment 4.4



The electrical installation work may be done only by a qualified electrician or a person instructed in electrical engineering and must conform to the applicable regulations.



When connecting cables and conductors to operating equipment, it is important to use Ex-certified entries that are suitable for the respective cable and conductor types. They must preserve the "e" type of protection and contain a suitable sealing element so that the IP 54 type of protection at least will be maintained.



Ex i Terminal compartment Terminals X19 - X24+ USB Ex i-interface

Ex e Terminal compartment Terminals X1 - X15



Do not connect the keyboard, mouse, track ball or touchpad when they are energised! Only an intrinsically safe USB stick from BARTEC may be connected to the existing USB Ex-i interface. The internal fuse can be destroyed if a USB device (or USB memory stick) that has not been tested is connected.



4.4.1 Terminal compartment Ex e

Terminal	Interface	Signal AC/DC		Description AC/DC
reminal	Interface	AC	DC	Description AC/DC
1	Supply	PE	PE	Protective earth
2	Supply	L1/+	+	AC 90 V - 253 V or DC 18 V - 26 V
3	Supply	N/-	-	Neutral conductor
4	Not Used			
5	Not Used			
6	Not Used			
7	Not Used			
8	Ethernet	RxD+		Receive positive
9	Ethernet	RxD-		Receive negative
10	Ethernet	TxD+		Transmit positive
11	Ethernet	TxD-		Transmit negative
12	USB	+5V		Power DC +5V
13	USB	-Data		Data negative
14	USB	+Data		Data positive
15	USB	GND		Ground

4.4.2 Terminal compartment Ex i

Terminal	Interface	Signal	Description	Colour
19	PS2	MS_Data	Transmit positive	RD
20	PS2	MS_CLK	Transmit negative	BL
21	PS2	KB_Data	Power DC +5V	GY
22	PS2	KB_CLK	Data negative	PK
23	PS2	GND	Data positive	GR/YE
24	PS2	VCC	Ground	BN/WH

4.4.3 Terminal assignment in conformance to T568B

Assembly					
RJ45	PIN	Colour		Interface	Signal
	1	OG/WH		Transmit positive	TxD+
	2	OG	\bigcirc	Transmit negative	TxD-
PIN1	3	GN/WH		Receive positive	RxD+
	4	BU	0		
	5	BU/WH			
Ť	6	GN	\bigcirc	Receive negative	RxD-
	7	BN/WH			
	8	BN	0)		

4.5 EMC (Electromagnetic Compatibility)

4.5.1



Note

This is a class A unit and can cause radio interference in residential areas; if it does, the owner/managing operator may be required to implement suitable measures and pay for loss or damage.



Only shielded conductors may be used as connecting conductors. This applies both to the data line and to all other conductors too.

The data lines must be stranded in pairs.

Example 4 x 2 x 0.75 mm² LIYCY TP.

As far as possible, separate conductors should be used for power supply and data.

4.5.2 Interference suppression

Certain basic measures must be taken to ensure freedom from interference when the graphic display are installed:

- Interference voltages injected into the device via power and signal cables and static charges caused by contact are to be conducted to earth (e.g. grounding screw terminal fixed to the back of the device). This earthing point must be connected to the PE conductor by means of the shortest possible low resistance copper conductor or must be integrated in the equipotential bonding. If this point is not observed, the measures taken to suppress interference and preclude damage to the device effectively will be impaired.
- The installation point should be as far as possible away from fields of electromagnetic interference. This is especially important if there are frequency converters in the vicinity. Under certain circumstances will it be advisable to set up partitions to isolate the graphic display from interference.
- If inductive devices are fitted in the vicinity (e.g. contactor, relay or solenoid coils), especially if they are powered from the same source, protective circuits (e.g. RC elements) must be installed.
- Power supply and data cables must be laid so as to avoid interference. This can be achieved, for example, by avoiding laying such cables in close proximity to high-current carrying cables.

4.5.3 Shielding

- Only cables with braided shielding should be used (recommended cover density > 80%).
- Sheet shielding should not be used.

Shielding connected at both ends

- Generally, connection of the shielding at both ends results in optimum damping of all interference frequencies.
- Connection of the shielding at one side only may be more advisable if a difference in potential exists and no equipotential bonding cable can be laid.

4.5.4 Connection of shielding

- A low impedance connection to the circuit protective conductor is important to ensure a low current fault path.
- When sub-D connectors are used, the shielding should always be connected to the metal casing of the sub-D plug.
- The plug casing of some controllers is not always well connected to earth. In such cases it may prove advantageous to insulate the shielding from the sub-D plug of the controller and connect it directly to the protective earth conductor by means of a cable that should be kept as short as possible (0.75 mm² ...1.5 mm²).

4.5.5 Examples of how shielding can be connected

of connecting cables between the controller and POLARIS Web Client/Remote PC Controller Web Client/Remote PC Shielding

Generally, connection of the shielding at both ends results in optimum damping of all interference frequencies. This method is to be recommended when there is good equipotential bonding between the individual units. In such cases it is possible to make use of the controller's voltage supply cable even if this is not electrically isolated.

Page 18 of 30



Connection of shielding at one end of connecting cables between the host and the Web Client/Remote PC:



Connection of the shielding at one end only is recommended when there is inadequate equipotential bonding, or none at all. In such cases an electrically isolated power supply unit must be used.

If the shielding were connected at both ends, the equipotential bonding current would flow to point A and this must be avoided at all costs, as the resultant interference pulses could be passed on to the devices via the data cable. When shielding is connected at one end only it must be on the side that has the lowest resistance earth connection.

Before the equipment goes into service the directions from the controller manufacturer regarding proper assembly and operation must be read carefully. They should then be applied taking full account of the recommendations we make here.

4.5.6 Connecting the Ethernet cable to the POLARIS Web Client/Remote PC





5. Commissioning

For electrical systems the relevant installation and operating specifications (e.g. Directives 99/92/EC and 94/9/EC, BetrSichV and the applicable national ordinances, IEC 60 079-14 and the DIN VDE 0100 series) must be observed.

The operator of an electrical system in a hazardous environment must keep the operating equipment in an orderly condition, operate it correctly, monitor it and do the required maintenance and repairs.

Before commissioning the devices, check that all components and documents are there.



Only trained and qualified personnel may commission and do maintenance work on the POLARIS Web Client/Remote PC! Trained qualified personnel are people who are familiar with the installation, assembly, commissioning and operation of the POLARIS Web Client/Remote PC, have been instructed about the risks and have the appropriate qualifications by virtue of the work they do.

The following conditions must be met before the device may be commissioned:

- Check the POLARIS Web Client/Remote PC for damage to seals, screw connections or the glass pane.
- Make sure the voltage and data cabling is in place.
- Close the covers on the Terminal compartments on the POLARIS Web Client/Remote PC.
- Make sure all screwed connections have been tightened securely.
- All connected sources of voltage and power must conform to the device's technical data.
- Disconnect the circuit for the POLARIS Web Client/Remote PC



6. Remote Desktop Configuration

6.1 Configuration of the host computer by the example Windows XP

- (1) Right-click "My Computer".
- (2) Select "Properties".
- (3) Select the "Remote" tab and tick the check box in the "Remote desktop" field.

System Restore Automatic Updates Remote General Computer Name Hardware Advanced System System Restore Automatic Updates Remote System System Restore Automatic Updates Remote System: Select the ways that this computer can be used from another Select the ways that this computer can be used from another Registered to: Remote Assistance Advanced Remote Desktop Advanced Computer: Computer name: Son/Vaio What is Remote Desktop? Select Remote Users For users to connect remotely to this computer, the user account must have a password. Select Remote Users	stem Propert	ies		?	Syst	tem Proper	ties			? 🛃
System: Significant and the second				Remote		General	Computer N	lame	Hardware	Advanced
Registered to: Remote Assistance Computer: Advanced Computer: Valion rules to perform this computer For users to connect remotely to this computer. Select Remote Users For users to connect remotely to this computer, the user account must Select Remote Users	General	Compu	iter Name Hardware	Advanced		System Res	store	Automati	c Updates	Remote
<u>Windows Firewall</u> will be configured to allow Remote Desktop connections to this computer.		2	Registered to:			 Iocation Remote Assist Allow Rem What is Remote Deski Remote Deski Remote Deski Remote Deski Monusetti Full computing Soryl/aio What is Remote Deski For users to have a pass Windows Fit 	tance top top 5 to connect rem uter name: emote Desktop? connect remotel sword. rewall will be cor	nvitations to e? notely to this ly to this co nfigured to a	b be sent from this	computer dvanced te Users ccount must

(4) The computer can be controlled now from the POLARIS Web Client/Remote PC.

Alternatively you can click on the buttons

- Start
- Properties
- Control Panel
- System Properties



6.2 Quick Start

The remote desktop function in Windows XP Professional is a terminal service session for individual users. The connection for communication with the host is based on the RDP (Remote Desktop Protocol). The remote desktop user accesses applications that run on the host system.

The client software for the remote desktop connection requires one of the following operating systems on the host computer:

- Windows XP Professional
- Windows Vista Business
- Windows 7 Professional, Ultimate and Enterprise edition

Optionally, VNC Software (not part of the delivery scope) can be installed on the POLARIS Web Client/Remote PC to remote control further operating systems (detailed information available from the respective manufacturer).

During a remote desktop session it is possible to use client resources such as file system objects, printers, serial connections, audio devices and the clipboard depending on the requirement. The remote desktop connection is started automatically after the system start.

6.3 "Remote Desktop Connection" Dialog Box



A corresponding "name" or the "IP address" of the host computer to be connected can be entered into the "Computer" field

Click on the **"Connect"** button.

6.4 "Log on to Windows" Dialog Box

Log On to V	
Copyright © 1985 Microsoft Corpora	
<u>U</u> ser name: <u>P</u> assword:	
Log on to:	Concel Shut Down Options <<

To set up a connection with the host computer, an enabled **"user name"** of the host computer and the corresponding **"password"** must be entered in the log-in screen.

To log onto the host computer, click on the **"OK"** button.

The host computer's desktop is shown on the POLARIS Web Client/Remote PC's display.

6.5 Optional settings for the POLARIS Web Client/Remote PC

esktop Connection	
Remote Desktop Connection	2
	elo Options >>

Logon sett	ings	Resources Programs Experience
	Type the nam the drop-dow	e of the computer, or choose a computer from n list.
	Computer:	
	User name:	Usemame
	Password	
	Domain:	Domain
		Save my password
Connection	n settings	settings, or open saved connection.

It is possible to operate several host computers from a POLARIS Web Client/ Remote PC.

To log onto different host computers, click on the "Options" button in the "**Remote Desktop Connection**" log-in screen to reach the optional menu.

In the "Logon settings" dialog box, the "name" or "IP address" and "the user name" with "password" can be entered and saved.

In the **"Connection settings"** dialog box a host computer that was saved before can be opened again and used by simply clicking the **"Open"** button.

6.6 Logging onto a number of different host computers

It is possible to set up several remote desktop connections at the same time on a POLARIS Web client/Remote PC.

By clicking on the different tasks in the task bar, you can switch between the individual remote desktop connections.



7. Troubleshooting

No image	 Check voltage connection
No network recognised	 Check Ethernet connection to the POLARIS Web Client/Remote PC Check connection cable to the network; it might not be connected
No remote access	 Check the host computer's IP address The host computer must be set up to allow remote access.
	 The host computer and the POLARIS Web Client/Remote PC must both be in the same subnet mask - particularly in a point-to-point connection
	 Even without a network connection a log-in name and a password must be set up on the host computer



8. Touch Screen

8.1 Key to the touch screen symbols in the system tray





The mouse symbol indicates which function of the mouse will be implemented when the touch screen is touched. In this case it is the function of the left mouse button. Touching the system once changes the function to the right mouse button until it is touched the next time, when it then returns to the standard setting.



The touch screen symbol indicates that the touch screen software is installed and it is ready for operation.

If the symbol for the change between left and right mouse button function is too small, it is possible to have a larger symbol shown on the screen.

1	Aktiv	Same la
	Kalibrieren	40.0
	Einstellungen anpassen	
	Test	
	Maustastenauswahl	
	Hilfe	
	Info	

Go to "Mouse button selection". The following window opens. It is possible to switch between the left and right mouse buttons.



17-71V3-



9. Order Numbers

Device
Display without touch 15"
Display without touch 19.1"
Display with touch 15"
Display with touch 19.1"
Power Supply
AC 90 V - 253 V
DC 24 V
National language
without classification of type
German
English (UK)
French
Italian
Swedisch
English (US)
other languages on request
Enclosure
Wall mounting Basic
Floor mounting Basic
Floor mounting Exclusive
Table mounting rotatable/inclinable Exclusive
other versions on request
Input device
without classification of type
Finger mouse
Trackball
Touchpad



Page 26 of 30



10. Accessories

Designation	Order no.		
Keyboard			
German	17-71VZ-40.0		
English (UK)	17-71VZ-40.1		
French	17-71VZ-40.2		
Italian	17-71VZ-40.3		
Swedisch	17-71VZ-40.4		
English (US)	17-71VZ-40.5		
other languages on request			
Input device			
Finger mouse	17-71VZ-1000		
Trackball	17-71VZ-2000		
Touchpad	17-71VZ-3000		
Connection cable for keyboard and finger mouse			
Total length: 1.8 m	05-0068-0163		
Total length: 3.0 m	05-0068-0204		
Connection cable for keyboard and trackball			
Total length: 1,8 m	05-0068-0205		
Total length: 3.0 m	05-0068-0204		
Connection cable for keyboard and touchpad			
Total length: 1.8 m	03-0068-0183		
Total length: 3.0 m	05-0068-0206		
Reinforcement frame			
for POLARIS Web Client/Remote PC 19.1"	05-0205-0010		
for POLARIS Web Client/Remote PC 15"	05-0205-0009		
Enclosure			
Wall mounting Basic			
Floor mounting Basic			
Floor mounting Exclusive			
Table mounting rotatable/inclinable Exclusive			
other versions on request			
Further Accessories			
USB Ex i-memory stick 4 GB	17-71VZ-5000/0100		



11. Maintenance, Inspection, Repair



Only trained and qualified personnel may commission and do maintenance work on the POLARIS Web Client/Remote PC! Trained qualified personnel are people who are familiar with the installation, assembly, commissioning and operation of the POLARIS Web Client/Remote PC, have been instructed about the risks and have the appropriate qualifications by virtue of the work they do.

Maintenance intervals

The mechanical status of the devices should be checked at regular intervals. The length of the maintenance intervals depends on the ambient conditions. We recommend checking at least once a year. Regular maintenance is not necessary if operated appropriately in conformance with the installation instructions and with due consideration to the ambient conditions.

Inspection

Under IEC 60079-19 and EN 60079-17, the owner/managing operator of electrical installations in hazardous areas is obliged to have these installations checked by a qualified electrician to ensure that they are in a proper condition.

Servicing

Adhere to the applicable regulations under Directive 99/92/EC, IEC 60079-19 and IEC 60079-17 when servicing, doing maintenance work on and testing associated operating equipment!

Assembly/disassembly, operating and maintenance work may be done only by trained specialists. The statutory rules and other binding directives on workplace safety, accident prevention and environmental protection must be observed.

Observe the national waste disposal regulations when disposing of the equipment.

Instructions for Repairs

If you wish to send in a defective device for repair, please read the RMA procedure guidance first. Then fill in and sign the RMA (Return Merchandise Authorisation) form and send it to our "Retouren Center".

Email: services@bartec.de Fax: +49 7931 597-119

We cannot guarantee any contractually agreed processing times for devices that are sent in without an RMA number.

The RMA guide and the RMA form are available on our homepage for downloading.

http://www.bartec-group.de > Quality and culture > RMA form

Have you any questions? Write us an e-mail or call us.

E-mail: services@bartec.de Phone: +49 7931 597-444



12. Disposal

The component of the POLARIS Web Client/Remote PC contains metal, plastic parts and electronic components.

The statutory requirements for electrical scrap must be observed therefore (e.g. disposal by an approved disposal company).

13. Dispatch and Packaging Instructions

Important information regarding transport and dispatch

! Sensitive Devices!

Take the device's maximum weight into consideration when selecting packaging and mode of transport. Stable pallets, for example, are suitable.



14. Additional information



POLARIS Web Client/Remote PC 17-71V3-....



	aration of C aration de C			BARTEC
	Wir		We	Nous
	BARTEC GmbH, Max-Eyth-Strasse 16, 97980 Bad Mergentheim			
	erklären, da	ss das Produkt	declare, that the product	attestons, que le produit
	POLARIS	Serie	POLARIS series	POLARIS série
		Ту	p-Nr.: 17-71Vx-xxxx/xxxx	
(bezieht, der	i diese Erklärung i Bestimmungen en Richtlinien		se référant à cette attestation correspond aux dispositions des directives sulvantes
	94/9/EG, 89/336/EW	/G	94/9/EC, 89/336/EEC	94/9/CE, 89/336/CEE
	und mit folgenden Normer oder normativen Dokumenten übereinstimn EN 60 079 - 0: 2004 E IEC 60 079 - 5: 2005 EN 60 079 - 7: 2003 E IEC 60 079 - 11: 2003 E EN 61 241 - 0: 2004 r EN 61 000 - 6 - 2: 2001 EN 61 000 - 6 - 4: 2001		and is in conformity with the following standards or other normative documents it EN 61 241 - 1: 2004	et est conforme aux normes ou documents normatifs ci- dessous
	EG-Baumus bescheinigu	sterprüf-	EC-Type Examination Certificate	Attestion d'examen CE de type
			IBExU 05 ATEX 1117 X	
	Qualitātssic Produktion	herung	Production Quality Assessment	Assurance Qualitée Production
			TÜV 96 ATEX 1086 Q	
	Kennzeichn	ung	Marking	Marquage
	C€0032 €0032 bzw. bzw. bzw. bzw. bzw. B II 2 B III		k e q [ib] IIC T4 2G Ex d e q [ib] IIC T4 (Visualisierungsgerät) k ib IIC T4 (Zubehör) k tD A21 IP6X T80°C (Visualisierungsgerät, USB-Stick) k ibD 21 T120°C (Tastatur, Maus, Trackball, Touchpad)	
	BAR Max-Ey 97980	TEC GmbH yth-Straße 16 iad Mergentheim	Ba	d Mergentheim, den 07.09.2000

Notice

BARTEC



BARTEC GmbH Germany Max-Eyth-Straße 16 97980 Bad Mergentheim Phone: +49 7931 597-0 Fax: +49 7931 597-119 info@bartec.de www.bartec-group.com