



## POLARIS Panel PC 17.3"

### Features

- Ethernet interface
- Easy front panel fitting
- Intrinsically safe USB interface
- Full HD resolution
- Direct linkage in explosive areas
- Optional touchscreen
- Optional WLAN
- Siemens PROFIBUS-DP/MPI-Interface

### Description

The POLARIS Panel PC 17.3" is based on a fast Intel® Atom™ Processor.

The Ethernet interface can be used to connect individual computers or network devices, e. g. a printer, to an existing local network (LAN) (WLAN is also an optional possibility) or local networks can be set up completely wirelessly.

This facilitates a high-performance visualization and operation of the processes directly on site.

The wired electrical connections are realized via a terminal compartment of the "e" type of protection (increased safety).

The state-of-the-art display technology guarantees an optimum contrast, even with large viewing angle.

The front panel fitting assures easy installation. Upon request, the devices are also available as turn-key system solutions in a stainless steel enclosure as wall, floor or ceiling mounting versions.

An intrinsically safe USB interface is available for a USB Ex i memory stick.

Intrinsically safe input devices can be connected also. The optional (intrinsically safe) touchscreen offers the optimum in operating comfort.

Windows® XP Professional or Windows 7® can be used as an operating system. The Panel PCs therefore support the installation of numerous software packages, such as customer-specific software or other commercially available standard visualisation software.

Of course, here too the operator can also work with the BARTEC "BMS-Graf-pro" programming package (Version 7.xxx or newer).

The BARTEC PROFIBUS-DP interface can only be used in connection with the BARTEC "BMS-Graf-pro" software.

### Explosion protection

#### Ex protection type Zone 1 and 21

**ATEX** Ex II 2G Ex db eb qb [ib op pr] IIC T4  
Ex II 2D Ex tb IIIC T120 °C

#### Certification

IBExU 05 ATEX 1117 X

**IECEX** Ex db eb qb [ib op pr] IIC T4

Ex tb IIIC T120 °C

#### Certification

IECEX IBE 11.0007 X

#### Protection class

IP 65 (front)

IP 54 (back)

#### Variant Zone 2

see BARTEC Internet: [www.bartec-group.com](http://www.bartec-group.com)

### Technical data

#### Construction

Front panel fitting

#### Display

- 17.3" graphics-capable TFT colour display
- 16.7 million colours
- Full HD resolution, 1920 x 1080 pixels
- Brightness 400 cd/m<sup>2</sup>
- Visible area approx. 382 x 215 mm
- Contrast 600:1
- Antireflection coating glass pane
- Optional touchscreen (resistive)

#### Backlight illumination

LED illumination

#### Computer capacity

Intel® Atom™ N270, 1.6 GHz,  
2 GB RAM/100 GB HDD

#### Operating system

Windows® XP Professional or  
Windows 7® Ultimate or  
Windows 7® Embedded MUI

#### Interface (Basic version)

- 1 x Ex e Ethernet 100/10BaseT  
(option of optical fibres)
- 1 x Ex e RS422
- 1 x Ex i USB for Ex i memory stick
- 2 x Ex i PS/2 for intrinsically safe  
keyboard and mouse

#### Optional interface modules

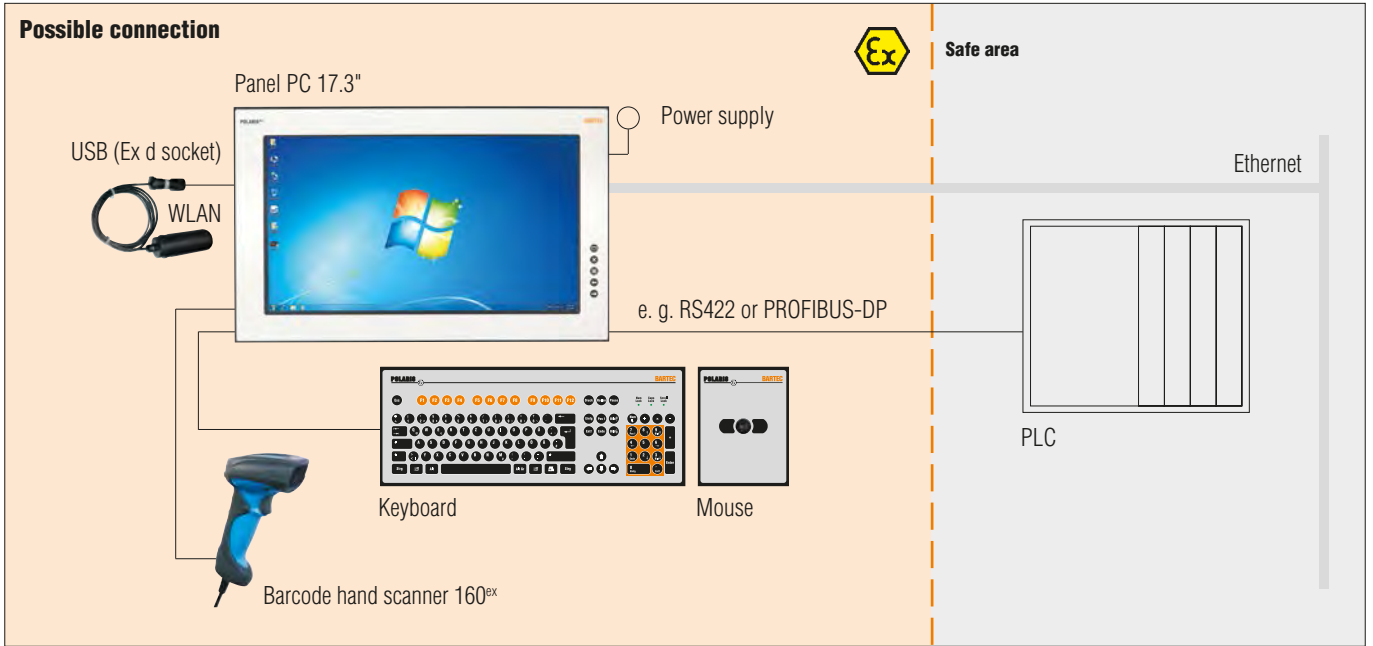
- 1 x Ex i Supply module for  
hand-held scanner
- 1 x Ex d USB direct connection  
(via Ex d socket) e. g. connection by  
means of WLAN
- 1 x Ex e USB

#### Dimensions (width x height x depth)

503 mm x 314 mm x approx. 135 mm

#### Wall cut-out

489 mm x 300 mm + 0.5 mm



**Weight**

approx. 33 kg

**Power supply**

AC 90 to 253 V, 50 to 60 Hz  
DC 24 V ± 10 % on request

**Max. power consumption**

$P_{max} < 100$  W depending on the variant

**Admissible ambient temperature**

Storage -20 °C to +50 °C  
Operation 0 °C to +50 °C

System solution with heating on request.

**Humidity**

5 to 95 % non-condensing

**Vibration**

0.7 g/1 mm; 5 Hz to 500 Hz pulse in all 3 axes

**Shock**

15 g/11 ms pulse in all 3 axes

**Material**

Front Polyester foil on anodised aluminium plate (conditionally UV-resistant)  
Back bichromated sheet steel

**Selection chart**

Version	Code no.	Interfaces	Code no.
Panel PC 17.3" without touchscreen	<b>E</b>	RS422	<b>00</b>
		BARTEC PROFIBUS-DP	<b>04</b>
		RS422, supply module for hand-held scanner	<b>08</b>
		BARTEC PROFIBUS-DP, supply module for hand-held scanner	<b>12</b>
		RS232	<b>32</b>
		TTY	<b>36</b>
Panel PC 17.3" with touchscreen	<b>F</b>	RS232, supply module for hand-held scanner	<b>40</b>
		TTY, supply module for hand-held scanner	<b>44</b>
		Siemens PROFIBUS-DP/MPI	<b>64</b>
		USB Ex e/RS422	<b>76</b>
		Further Interface combinations on request	<b>XX</b>

➔ **Complete order no. 17-71V1- [ ] 0 [ ] [ ] / [ ] 000**

Please insert correct code.

Technical data subject to change without notice.

You will find the accessories with order details on the accessories pages.

Operating system	Code no.
Windows® XP Professional	<b>P</b>
Windows 7® Ultimate	<b>U</b>
Windows 7® Embedded MUI	<b>F</b>