



POLARIS Panel PC 24"

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 24" 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 for Zone 1 and 21

ATEX  II 2G Ex db eb qb [ib op pr] IIC T4
 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

➔ Technical data

Construction

Front panel fitting

Display

- 24" graphics-capable TFT colour display
- 16.7 million colours
- Full HD resolution, 1920 x 1080 pixels
- Brightness 300 cd/m²
- Visible area approx. 531 x 299 mm
- Contrast 3000:1
- 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

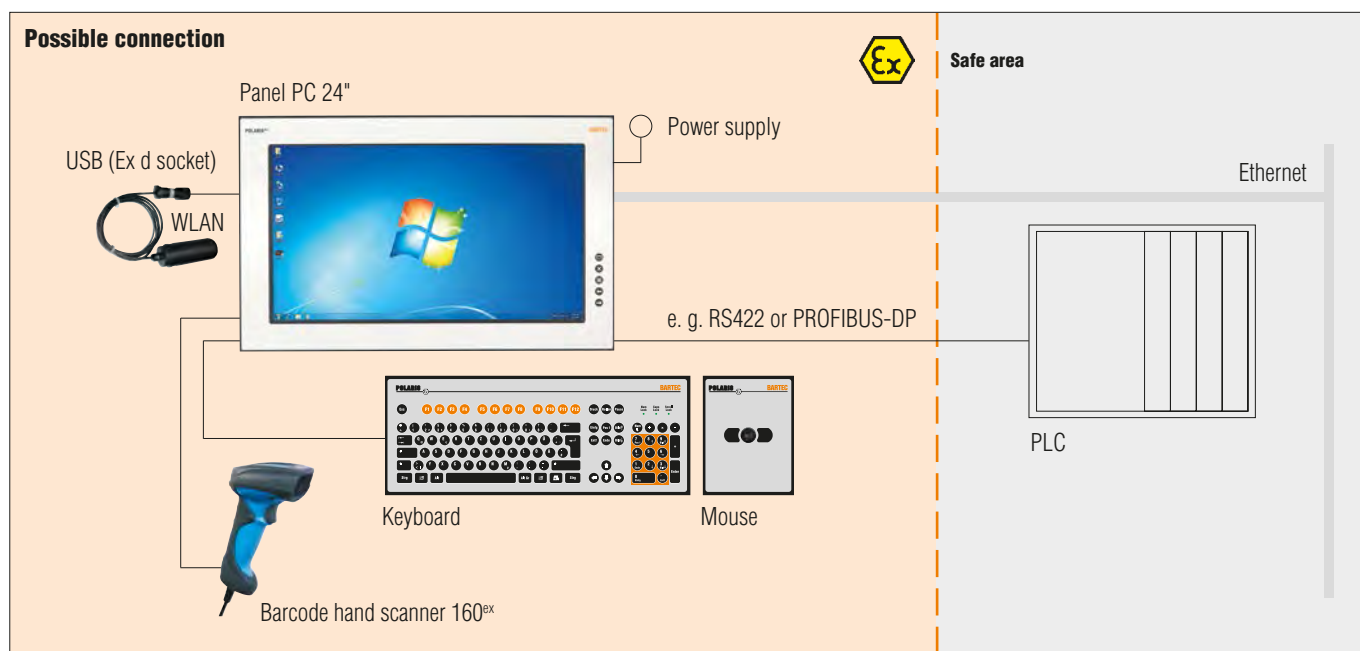
- 1 x Ex i Supply module for
hand-held scanner
- 1 x Ex d USB direct connection
(via Ex d socket) e. g. connection by
means of WLAN
- 1 x Ex e USB

Dimensions (width x height x depth)

644 mm x 406 mm x approx. 135 mm

Wall cut-out

630 mm x 392 mm + 0.5 mm



Weight

approx. 40 kg

Power supply

AC 90 to 253 V, 50 to 60 Hz
DC 24 V \pm 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 24" without touchscreen	C	RS422	00
		BARTEC PROFIBUS-DP	04
		RS422, supply module for hand-held scanner	08
		BARTEC PROFIBUS-DP, supply module for hand-held scanner	12
		RS232	32
		TTY	36
Panel PC 24" with touchscreen	D	RS232, supply module for hand-held scanner	40
		TTY, supply module for hand-held scanner	44
		Siemens PROFIBUS-DP/MPI	64
		USB Ex e/RS422	76
		Further Interface combinations on request	XX

➔ **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	P
Windows 7® Ultimate	U
Windows 7® Embedded MUI	F