BARTEC

POLARIS Panel PC 15"

Features

- Ethernet interface
- Easy front panel fitting
- Intrinsically safe USB interface
- Graphics-capable TFT colour display
- Direct linkage in explosive areas
- Optional touchscreen
- Optional WLAN
- Siemens PROFIBUS-DP/MPI interface

Description

The Panel PC 15" 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

Further approvals
INMETRO, GOST-R

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
- 15" graphics-capable TFT colour display
- 16.7 million colours
- XGA resolution, 1024 x 768 pixels
- Brightness up to 350 cd/m²
- Visible area approx. 304 x 228 mm
- Contrast 700:1
- Antireflection coating glass pane
- Optional touchscreen (resistive)

Backlight illumination
- CFL technology
- Service life approx. 50,000 hours (at +25 °C)

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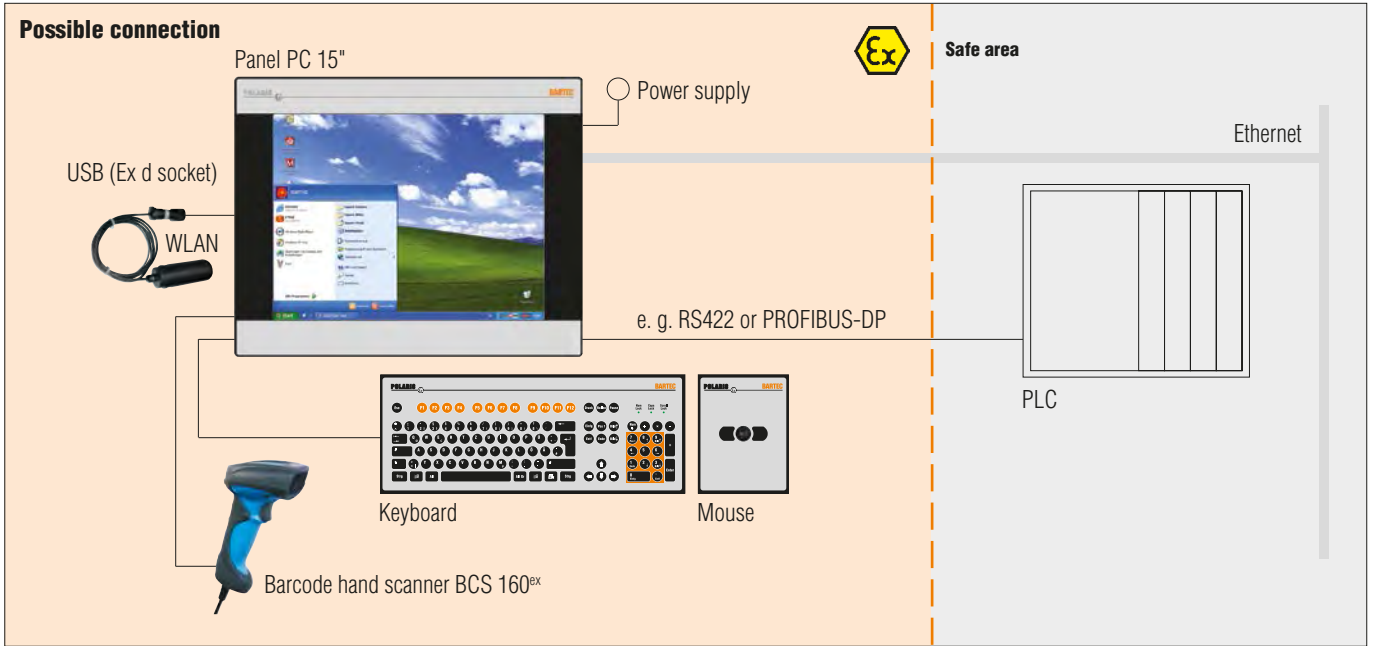
Interface (Basic version)
- 1 x Ex e Ethernet 100/10BaseT (option of optical fibres)
- 1 x Ex e RS422
- 1 x Ex i USB for Ex i memory stick
- 2 x Ex i PS/2 for intrinsically safe keyboard and mouse

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 through WLAN

Dimensions (width x height x depth)
411 mm x 332 mm x approx. 135 mm

Possible connection

Panel PC 15"

USB (Ex d socket)

WLAN

Power supply

Safe area

Ethernet

e. g. RS422 or PROFIBUS-DP

PLC

Keyboard

Mouse

Barcode hand scanner BCS 160ex

Wall cut-out
394.5 mm x 315.5 mm + 0.5 mm

Weight
approx. 23 kg

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

Max. power consumption
$P_{max.} < 70$ W

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 15" without touchscreen	4	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**
Panel PC 15" with touchscreen	6	TTY	**36**
		RS232, supply module for hand-held scanner	**40**
		TTY, supply module for hand-held scanner	**44**
		Siemens PROFIBUS-DP/MPI	**64**
		USB Ex e	**72**
		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**