



POLARIS Panel PC 19.1"

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 POLARIS Panel PC 19.1" 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. This means that the PCs are open for many different software packages, for example customized software or various types of 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 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

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

- 19.1" graphics-capable TFT colour display
- 16.7 million colours
- SXGA resolution, 1280 x 1024 pixels
- Brightness 300 cd/m²
- Visible area approx. 380 x 305 mm
- Contrast 1300:1
- Antireflection coating glass pane
- Optional touchscreen (resistive)

Backlight illumination

- CFL illumination
- Service life approx. 40,000 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)

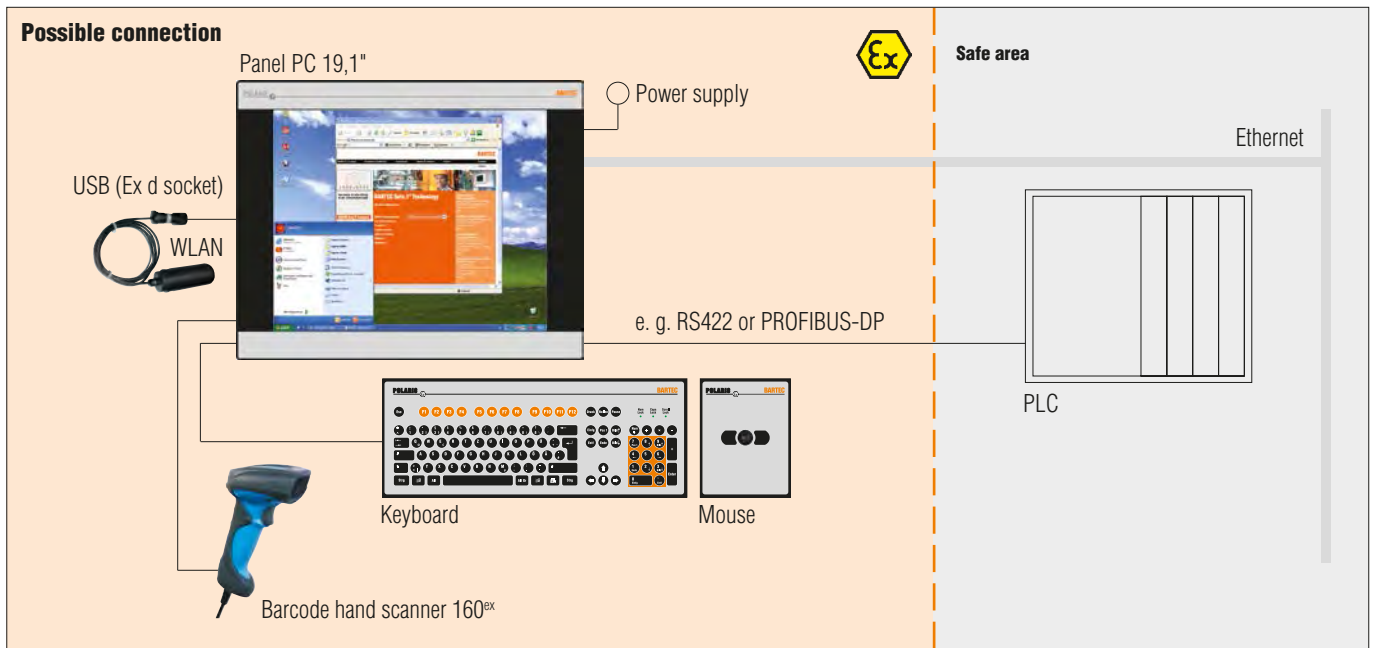
- 1 x Ex e Ethernet 100/10BaseT (option of optical fibres)
- 1 x Ex e RS422
- 1 x Ex i USB for Ex i memory stick
- 2 x Ex i PS/2 for intrinsically safe keyboard and mouse

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 by means of WLAN

Dimensions (width x height x depth)

498 mm x 400 mm x approx. 135 mm



Wall cut-out

484 mm x 386.5 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

$P_{max} < 70 \text{ W}$

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 19.1" without touchscreen	5	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 19.1" with touchscreen	7	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