

POLARIS Panel PC 19.1"

Features

- Ethernet interface
- Easy front panel fitting
- Simple download via USB Ex i-memory stick
- 19.1" graphic-capable TFT colour display
- Direct linkage in explosive areas
- Optional touch screen
- Optional WLAN

Description

The POLARIS Panel PC 19.1" is based on a fast Intel® Pentium® M processor and is equipped with all conventional interfaces.

By means of the WLAN technology, individual computers or network devices such as printers or DSL access points can be wirelessly connected to an existing local network (LAN) 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 of 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 for a USB Ex i-memory stick enables the device configuration's easy transferability.

An intrinsically safe keyboard as well as a mouse, a trackball and a touchpad are available as front panel fitting. Optionally, a touch screen (intrinsically safe), assuring an absolutely maximum operator convenience, is available.

As a standard, Windows®XP Professional is pre-installed on the Panel PCs, supporting the installation of numerous software packages such as customer-specific software or other conventional standard visualization software. Of course, the operator can also employ the BARTEC "BMS Graf pro" software package.

The PROFIBUS-DP interface can be used only with software package "BMS Graf pro".

Explosion protection

Ex protection type

- Ex II 2G Ex e q [ib] IIC T4
- Ex II 2D Ex tD A21 IP6X T80 °C

Certification

IBExU05ATEX1117 X

Protection class

- IP 65 (front side)
- IP 54 (rear side)

Technical data

Construction

Front panel fitting

Display

- 19.1" TFT graphic display
- 16.7 million colours
- SXGA resolution 1280 x 1024 pixels
- Brightness 250 cd/m²
- Visible area approx. 380 x 305 mm
- Contrast 700:1
- Antireflection coating glass pane
- Optional touch screen

Backlight illumination

- CFL illumination
- Service life approx. 40,000 hours (at +25 °C)

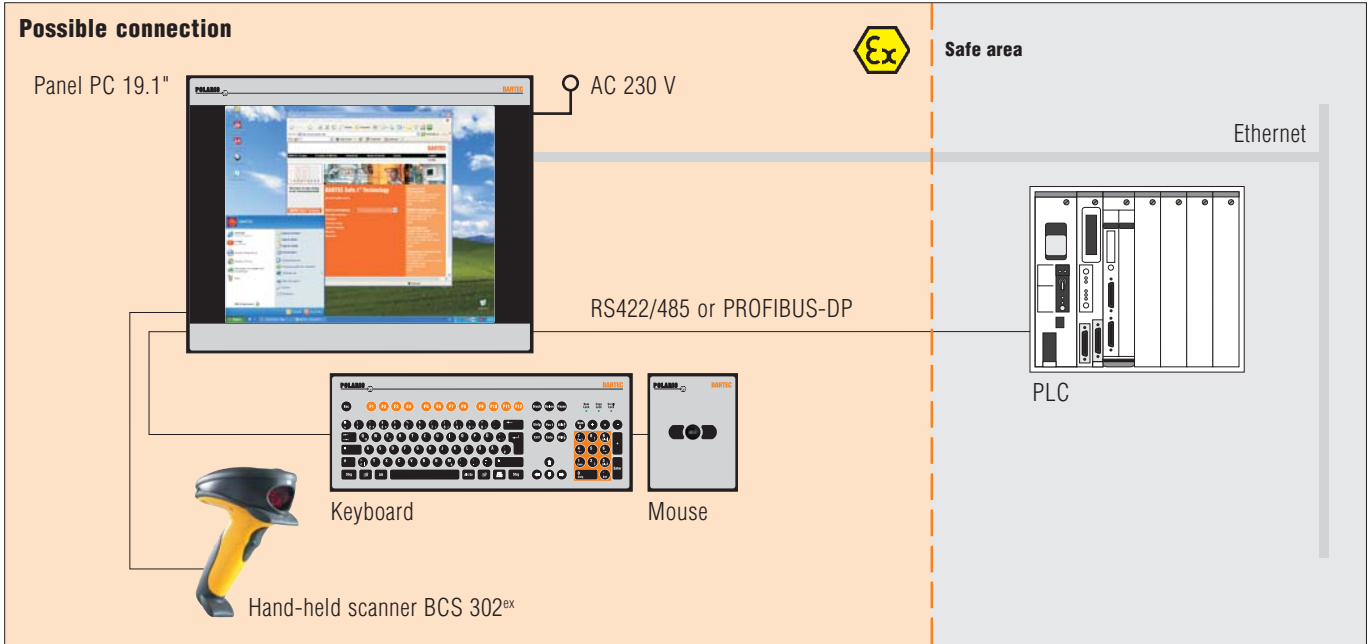
Computer capacity

- Pentium®M Processor, 1.1 GHz
- Graphic memory 32 MB
- 512 MB RAM, 40 GB memory

Operating system

Windows® XP Professional (pre-installed)

Open platform for customer-specific visualization software, e. g. ProTool, WIN CC flexible, etc.



**Interface**

- Ethernet 10BaseT
- RS422/RS485, RS232, TTY or PROFIBUS-DP
- USB for Ex i-memory stick
- 2 x PS/2 for keyboard and mouse

**Optional interface modules**

- Supply module for hand-held scanner
- USB direct connection (via Ex d socket)

**Dimensions** (width x height x depth)

498 mm x 400 mm x approx. 135 mm

**Wall cut-out**

484 mm x 386.5 mm x + 0.5 mm

**Weight**

Approx. 33 kg

**Power supply**

AC 230 V ± 10 %, 50 to 60 Hz  
AC 90 to 253 V, 50 to 60 Hz on request

**Max. power consumption**

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

**Admissible ambient temperatures**

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

**Humidity**

5 to 95 % non-condensing

**Material**

Front Polyester foil on aluminium sheet (conditionally UV-resistant)  
Rear panel galvanised sheet steel, bichromated

**Selection chart**

Version	Code no.	Interface	Code no.
Panel PC 19.1" without touch screen	5	RS422/485	00
		PROFIBUS-DP	04
		RS422/485, supply module for hand-held scanner	08
		PROFIBUS-DP, supply module for hand-held scanner	12
Panel PC 19.1" with touch screen	7	RS232	32
		TTY	36
		RS232, supply module for hand-held scanner	40
		TTY, supply module for hand-held scanner	44

**Complete order no.**

17-71V1-  0

Please insert correct code.  
Technical data subject to change without notice.  
POLARIS accessories (Mouse, keyboard or enclosures) starting from page 23.