



## POLARIS Panel PC 15" Sunlight

### Features

- Sunlight readable display
- Ethernet interface
- Easy front panel fitting
- Intrinsically safe USB interface
- Direct linkage in explosive areas
- Optional touchscreen
- Optional WLAN

### Description

The POLARIS Panel PC 15" Sunlight is enhanced with industrial LED backlighting, which reaches a very high brightness of 1,000 cd/m<sup>2</sup>.

Combined with the special characteristics of the front polarizer, this allows excellent readability even under strong sunlight and it is therefore ideal for use outdoors. The Panel PC 15" Sunlight 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](http://www.bartec-group.com)

### Technical data

#### Construction

Front panel fitting

#### Display

- 15" graphics-capable TFT colour display
- 262,144 colours
- XGA resolution, 1024 x 768 pixels
- Brightness up to 1000 cd/m<sup>2</sup>
- Visible area approx. 304 x 228 mm
- Contrast 700:1
- Antireflection coating glass pane
- Optional touchscreen (resistive)

#### Backlight illumination

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

#### Computer capacity

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

#### 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

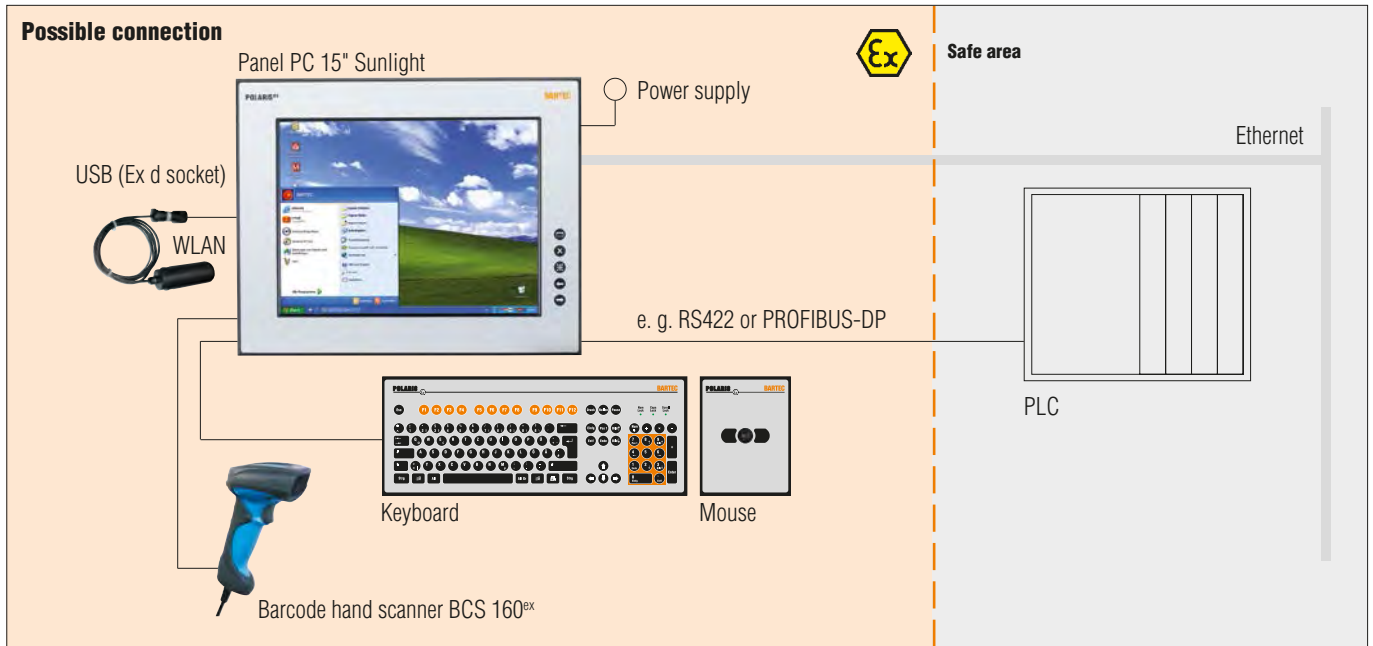
- 1 x Ex i Supply module for hand-held scanner
- 1 x Ex d USB direct connection (via Ex d socket) e. g. connection through WLAN

#### Operating system

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

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

411 mm x 332 mm x approx. 135 mm



**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 %

**Max. power consumption**

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

**Admissible ambient temperature**

Storage -20 °C to +60 °C  
Operation -20 °C to +60 °C

**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" Sunlight 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
		TTY	36
Panel PC 15" Sunlight with touchscreen	6	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- 2 / 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