POLARIS Panel PC 12.1"

Features

- LED technology
- Higher screen resolution
- Touchscreen
- Processor 1.6 GHz
- Remote desktop solution
- Presentation of HTML pages
- Direct connection in hazardous areas
- Option of Windows 7®
- Integrated keyboard customisation

Description

The POLARIS Panel PC 12.1" is an innovative further development of the POLARIS PROFESSIONAL Serie.

High-resolution displays with LED technology and touchscreen for intuitive as well as comfortable operation are available now in the standard variant.

State-of-the-art LED display technology ensures the optimum contrast even with a large viewing angle.

This Panel PC has been equipped as standard with the latest generation processor, the Intel® Atom™ with 1.6 GHz.

Windows® XP Professional or Windows 7® can be used as an operating system. Thanks to the integrated keyboard customisation for Windows®, Siemens WinCC flexible®, RS View® or BMS-Graf-pro, the POLARIS Touch Panel can be used for all visualisation tasks. They can be connected to the control or the process control system through Ethernet, PROFIBUS-DP or various serial COM interfaces.

Of course, here too the user can work with the latest BMS-Graf-Pro Version 7, allowing for example the transfer of projects through Ethernet, the use of graphics lists and the integrated user administration.

Wired electrical connections are facilitated by integrated terminal compartments.

The front-panel fitting design ensures easy installation. On request, the devices are also available as ready-made system solutions in stainless steel enclosures for wall, floor or ceiling mounting.

They also feature an intrinsically safe USB interface for a USB Ex i flash drive. Intrinsically safe input devices can be connected also.

Explosion protection

Ex protection type Zone 1 and Zone 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
- 12.1" TFT graphic display
- 262,144 colours
- Resolution XGA 1024 x 768 pixels
- Brightness 500 cd/m²
- Visible surface approx. 246 x 184 mm
- Contrast 700:1
- Touchscreen (resistive)

Background lighting
- 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

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

Keyboard (short-stroke keys)
- Alphanumeric key block
- 4 cursor keys
- 12 cursor keys
- 16 function keys able to be labelled
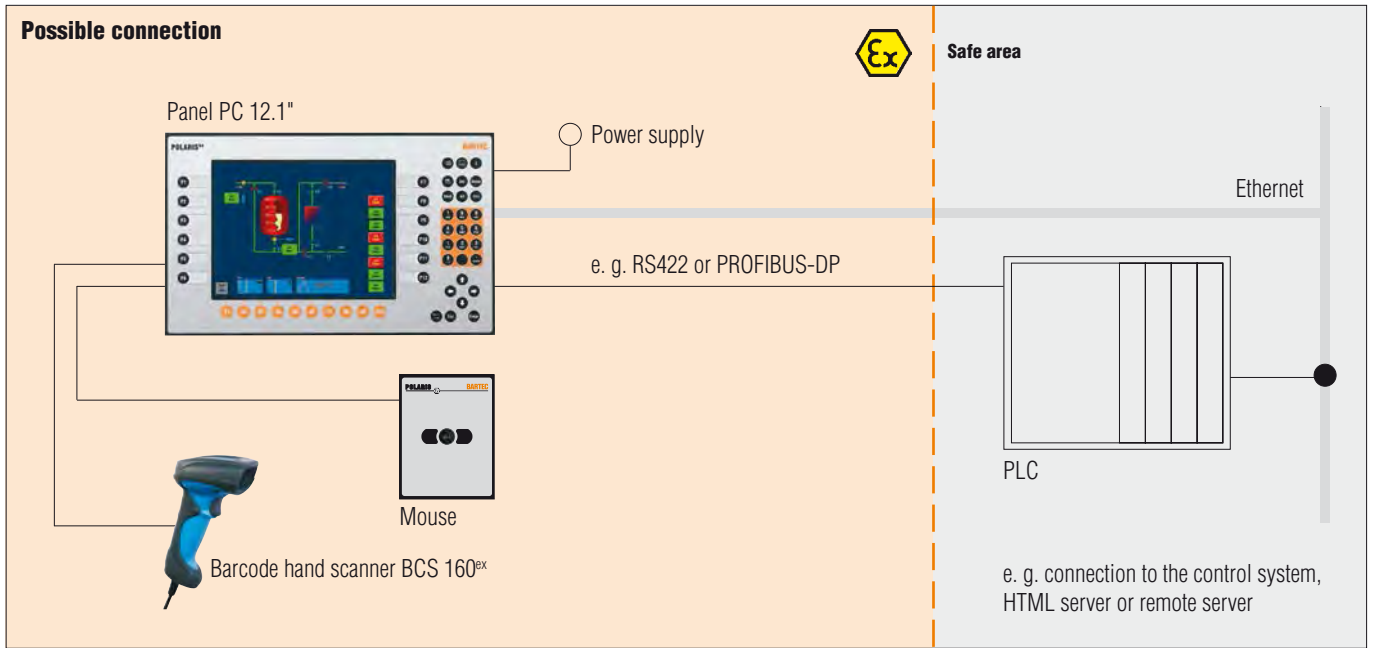 with LEDs

Interfaces (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
- 1 x Ex i PS/2 for intrinsically safe mouse

Optional interfaces
1 x Ex i Supply module for
hand-held scanners

Dimensions (width x height x depth)
440 mm x 275 mm x approx. 130 mm

Possible connection

Safe area

Panel PC 12.1"

Power supply

Ethernet

e. g. RS422 or PROFIBUS-DP

Mouse

Barcode hand scanner BCS 160ex

PLC

e. g. connection to the control system,
HTML server or remote server

Wall cut-out
425 mm x 255 mm + 0.5 mm

Weight
approx. 18 kg

Supply voltage
DC 24 V ± 10 %

Max. power consumption
$P_{max.} < 35$ W

Permissible ambient temperatures
Storage   -20 °C to +50 °C
Operation   0 °C to +50 °C

Variant
Operation   -20 °C to +50 °C
on request (without external heating)

Relative air 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	Interfaces	Code no.
POLARIS PROFESSIONAL Panel PC 12.1"	RS422	**00**
	BARTEC PROFIBUS-DP	**02**
	RS422, supply module for hand-held scanners	**04**
	BARTEC PROFIBUS-DP, supply module for hand-held scanners	**06**
	Siemens PROFIBUS-DP/MPI	**08**
	RS232	**09**
	TTY	**11**
	RS232, supply module for hand-held scanners	**13**
	TTY, supply module for hand-held scanners	**15**
	BARTEC PROFIBUS-DP, Ex d USB	**33**
	USB Ex e/RS422	**37**
	Further Interface combinations on request	**XX**

➡ **Complete order no. 17-71V1-80** ☐☐ / ☐ **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**