

POLARIS Panel PC 12.1" W

Features

- LED technology
- High screen resolution
- Touchscreen
- 1.6 GHz processor power
- Direct connection in hazardous areas
- Option of Windows 7®
- Integrated keyboard customisation

Description

The POLARIS Panel PC 12.1" W is an innovative new development of the POLARIS PROFESSIONAL series.

The high-resolution display with LED backlighting and touchscreen allow intuitive and comfortable operation. Even with wide viewing angles or when lighting is poor, the state-of-the-art LED display technology assures the optimum in contrast.

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 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

- 12.1" W graphics-capable TFT colour display
- 262,144 colours
- WXGA resolution, 1280 x 800 pixels
- Brightness 400 cd/m²
- Visible surface approx. 264 x 166 mm
- Contrast 1200:1
- 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

Front-panel keys

- 10 special keys
- 12 inscribable function keys with LEDs

Optional variant: without front-panel keys

Interfaces (basic version)

- 1 x Ex e Ethernet 100/10BaseT (FO optional)
- 1 x Ex e RS422
- 1 x Ex i USB for Ex i flash drive
- 1 x Ex i PS/2 for intrinsically safe mouse

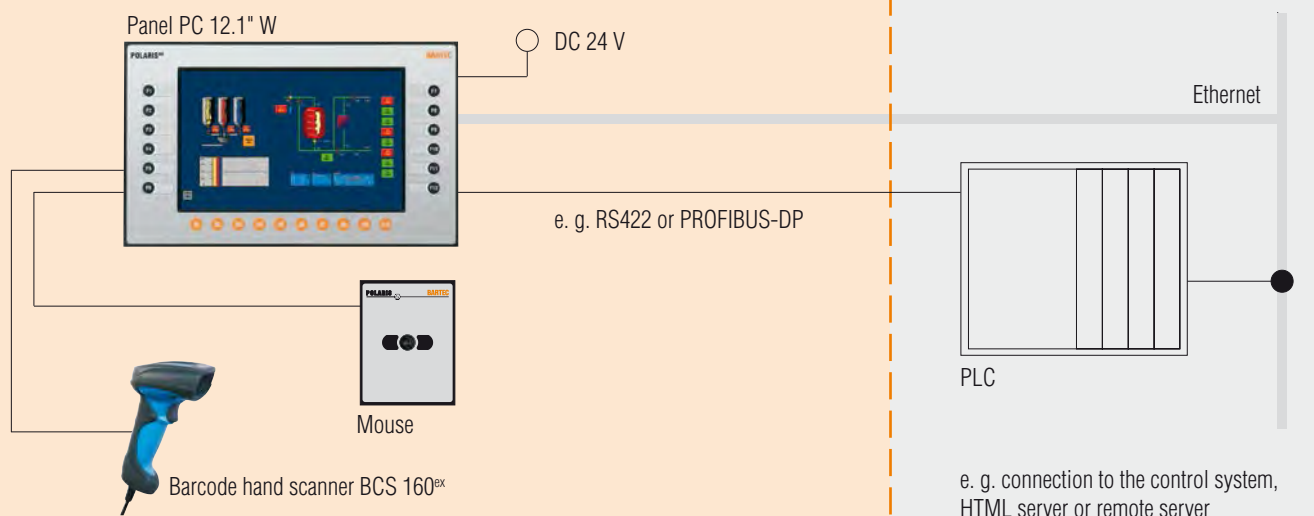
Variant without front-panel keys: 2 x Ex i PS/2

Optional interfaces

1 x Ex i supply module for
hand-held scanners

Dimensions (width x height x depth)

400 mm x 246 mm x approx. 130 mm



Wall cut-out

386 mm x 226 mm + 0.5 mm

Weight

approx. 14 kg

Supply voltage

DC 24 V \pm 10 %

Max. power consumption

 $P_{\text{max}} < 35 \text{ W}$

Permissible ambient temperatures

Storage -20 °C to +50 °C

Storage	-55 °C to +150 °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 POLARIS PROFESSIONAL Panel PC 12.1" W

Keys	Code no.	Interfaces	Code no.
with front-panel keys	0	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
without front-panel keys	4	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-B / 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