

POLARIS Panel PC 12.1"

Features

- Easy front panel fitting
- Intrinsically safe USB interface
- Graphic-capable TFT colour display
- Direct linkage in explosive areas

Description

The POLARIS Panel PC 12.1" is a consistent further development of the BAT 800 but still retains downward compatibility.

State-of-the-art TFT technology is used for the display.

The Panel PC 12.1" allows process visualisations to be connected directly in explosive areas without the need for any additional intrinsically safe isolation cards.

The laying of blue lines for intrinsically safe circuits is dispensed with and there is no need for separate data line wiring either.

The Panel PCs can be connected directly to the PROFIBUS-DP or the control station's communication interface. Available features include e. g. RS422/RS485 or PROFIBUS-DP and the option of a supply module for hand-held scanners.

An intrinsically safe USB interface for a USB Ex i memory stick makes it easy to transfer the device's configuration.

On request the devices are also available as a ready-to-use system solution in a stainless steel enclosure for wall, floor or ceiling mounting.

The visualisation is created with the „BMS-Grafpro“ programming package (Version 6.xxx), which has been specially developed and optimised for that purpose.

➔ Explosion protection

Ex protection type

ATEX Ex II 2G Ex db eb qb [ib] IIC T4
Ex II 2D Ex tb IIIC T120°C IP 6X

Certification

IBExU 05 ATEX 1117 X

IECEx Ex db eb qb [ib] IIC T4
Ex tb IIIC T120°C IP 6X

Certification

IECEx IBE 11.0007 X

Further approvals

INMETRO, GOST-R

Protection class

IP 65 (front)
IP 54 (back)

➔ Technical data

Construction

Front panel fitting

Display

- 12.1" graphic-capable TFT colour display
- 262,144 colours
- SVGA resolution 800 x 600 pixels
- Brightness 350 cd/m²
- Visible area approx. 249 x 188 mm
- Contrast 400:1
- Antireflection coating glass pane

Backlight illumination

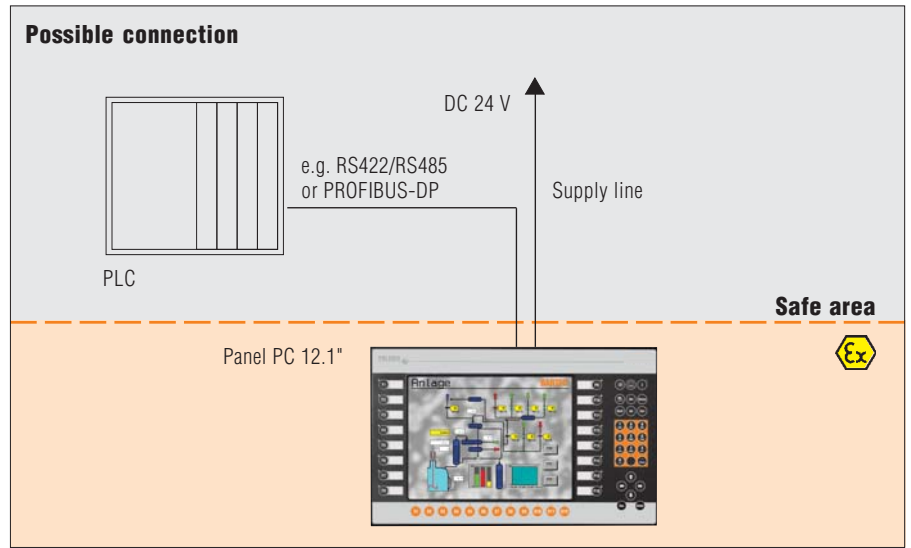
- CFL technology
- Service life approx. 25,000 hours (at +25 °C)

Computer capacity

- Processor 500 MHz
- 256 MB RAM
- Compact Flash CF 512 MB

Interface (Basic version)

- 1 x Ex e RS422/RS485
- 1 x Ex i USB for Ex i memory stick



Keyboard (short-stroke keys)

- alphanumerischer Tastenblock
- 4 cursor keys
- 12 Cursortasten
- 16 function keys able to be labelled with LEDs

Optional interface modules

1 x Ex i Supply module for hand-held scanner

Dimensions (width x height x depth)

440 mm x 275 mm x approx.130 mm

Wall cut-out

425 mm x 255 mm + 0.5 mm

Weight

approx. 18 kg

Power supply

DC 24 V ± 10 %

Max. power consumption

$P_{max.} < 30 \text{ W}$

Admissible ambient temperatures

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 - 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 sheet (conditionally UV-resistant)
 Rear panel galvanised sheet steel, bichromated

Selection chart

Version	Interfaces	Code no.
Panel PC 12.1"	RS422/RS485	00
	PROFIBUS-DP*	02
	RS422/RS485, supply module for hand-held scanner	04
	PROFIBUS-DP, supply module for hand-held scanner*	06
	RS232	09
	TTY	11
	RS232, supply module for hand-held scanner	13
	TTY, supply module for hand-held scanner	15

* Download only via USB Ex i-memory stick.

➔ **Complete order no. 17-71V1-30**

Please insert correct code.

Technical data subject to change without notice.

You will find the accessories with order details on the accessories pages.