

POLARIS Panel PC 5.7"

Features

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

Description

The POLARIS Panel PC 5.7" is a consistent further development of the BAT 300 but still retains downward compatibility.

State-of-the-art TFT technology is used for the display with a very high view angle, which attains a level of brightness of 400 cd/m² in the Ex applications.

With the Panel PC 5.7", process visualizations can be directly connected in explosive areas without the need for additional intrinsically safe isolation cards.

The laying of blue lines for intrinsically safe circuits is dropped. A separate wiring of the data line is not necessary.

The Panel PC can be directly connected to the PROFIBUS-DP or the communication interface of the control station.

Available features include e. g. RS422/RS485, PROFIBUS-DP, RS232 or TTY. An intrinsically safe USB interface for a USB Ex i-memory stick enables the device configuration's easy transferability.

Upon request, the devices are also available as turn-key system solutions in a stainless steel enclosure as wall, floor or ceiling mounting versions.

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

➤ Explosion protection

Ex protection type

ATEX II 2G Ex db eb qb [ib] IIC T4
 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

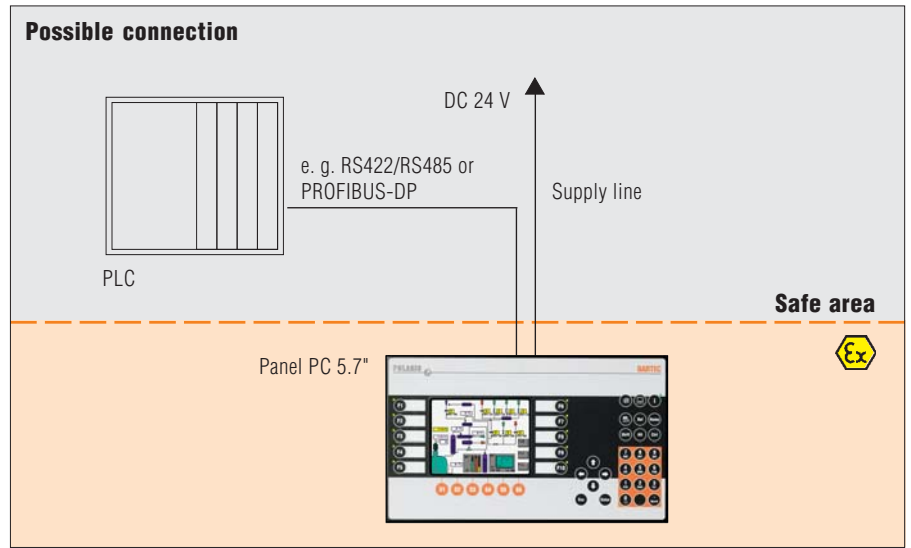
- 5.7" graphic-capable TFT colour display
- 262,144 colours
- QVGA resolution 320 x 240 pixels
- Brightness 400 cd/m²
- Visible area approx. 116 x 88 mm
- Contrast 300:1
- Antireflection coating glass pane

Backlight illumination

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

Computer capacity

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



Keyboard (short-stroke keys)

- Alphanumeric key block
- 4 cursor keys
- 6 special keys
- 10 function keys able to be labelled with LEDs

Interface (Basic version)

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

Dimensions (width x height x depth)

335 mm x 199 mm x approx. 130 mm

Wall cut-out

321 mm x 179 mm + 0.5 mm

Weight

approx. 10 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 (conditionally UV resistant)
- Rear panel galvanised sheet steel bichromated

Selection chart

Version	Interfaces	Code no.
Panel PC 5.7"	RS422/485	00
	PROFIBUS-DP*	02
	RS232	09
	TTY	11

* Download only via USB Ex i-memory stick.

➔ **Complete order no. 17-71V1-10**

Please insert correct code.

Technical data subject to change without notice.

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