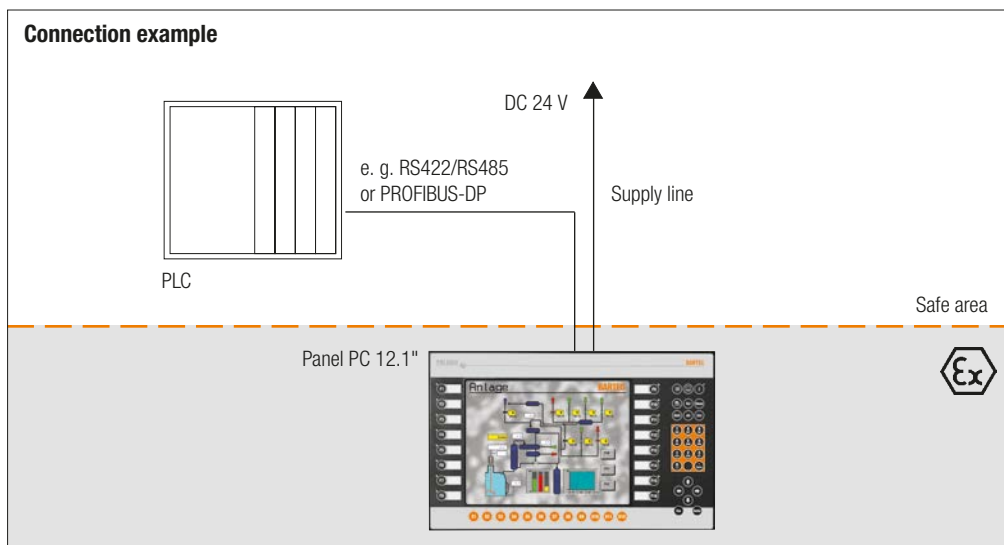The POLARIS Panel PC 12.1" is the logical further development of the BAT 800 but still retains downward compatibility. State-of-the-art TFT technology is used for the display. The Panel PC 12.1" allows process visualisations to be connected directly in explosive areas without the need for any additional 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 for example 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 turn-key system solutions in a Stainless-steel enclosure for wall or floor mounting. The visualisation is created with the „BMS-Graf- pro" programming package (Version 6.xxx), which has been specially developed and optimised for this purpose.

Explosion protection

Marking ATEX	⟨Ex⟩ II 2G Ex db eb qb [ib] IIC T4
Zone 1 und 21	⟨Ex⟩ II 2D Ex tb IIIC T120 °C
Certification	IBExU 05 ATEX 1117 X
Marking IECEx	Ex db eb qb [ib] IIC T4
	Ex tb IIIC T120 °C
Certification	IECEx IBE 11.0007 X
Other approvals and certificates, see www.bartec.de	
Variant for Zone 2	www.bartec.de

Technical data

Construction	Front-panel fitting
Protection class	IP 65 (front)
	IP 54 (back)
Display	12.1" graphics-capable TFT colour display
	262,144 colours
	SVGA resolution 800 x 600 pixels
	Brightness 350 cd/m^2
	Visible area approx. 249 x 188 mm
	Contrast 400:1
	Antireflection-coated glass pane
Backlighting	CFL technology
	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)	alphanumerischer Tastenblock
	4 cursor keys
	12 cursor keys
	16 function keys able to be labelled with LEDs
Interfaces (Basic version)	1 x Ex e RS422/RS485
	1 x Ex i USB for Ex i memory stick
Optional accessories	Hand-held scanner on request
Dimensions (W x H x D)	440 mm x 275 mm x approx.130 mm
Wall cut-out	425 mm x 255 mm + 0.5 mm
Gewicht	approx. 18 kg
Power supply	DC 24 V ± 10 %
Max. power consumption	P$_{max.}$ < 30 W
Admissible ambient temperatures	Storage -20 °C to +50 °C
	Operation 0 °C to +50 °C
	System solution with heating on request.
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)
	Rear panel: bichromated sheet steel

Connection example

DC 24 V

e. g. RS422/RS485
or PROFIBUS-DP

Supply line

PLC

Safe area

Panel PC 12.1"

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Ordering information

Description	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.