



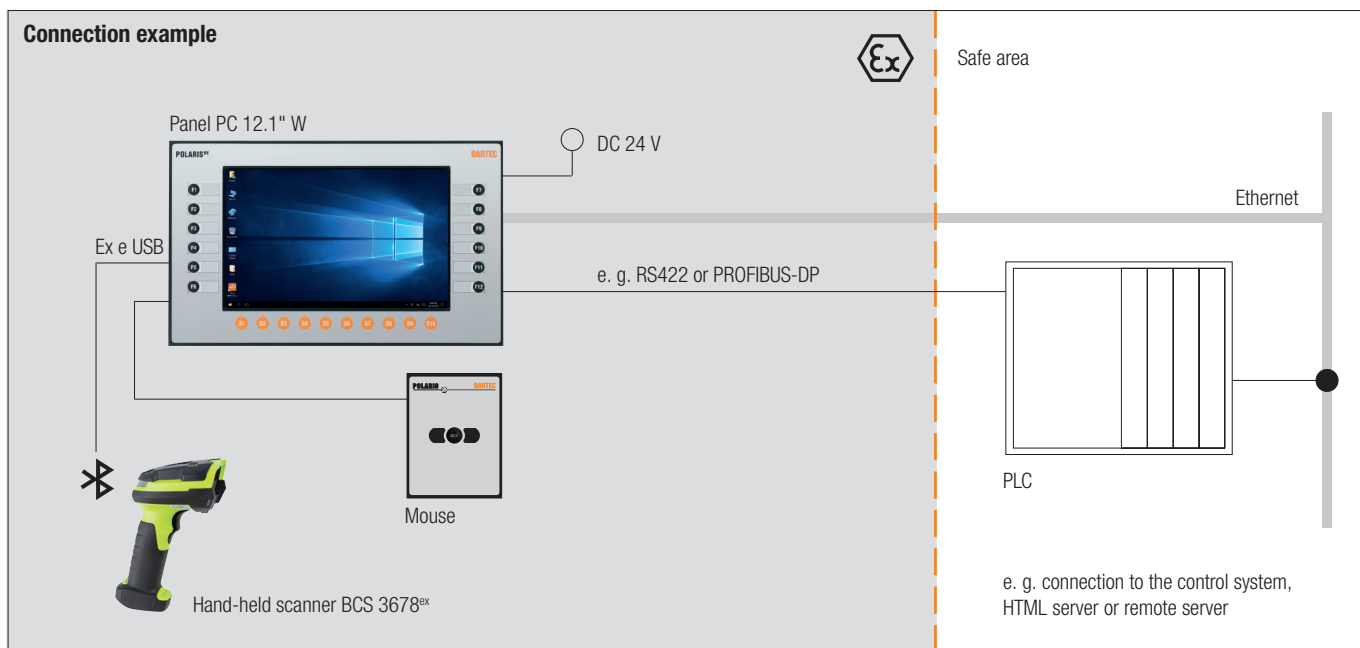
The POLARIS Panel PC 12.1" W is an innovative new development of the POLARIS PROFESSIONAL series. The high-resolution display with LED back-lighting and touchscreen allow intuitive and comfortable operation. Even with wide viewing angles or when lighting is poor, the state-of-the-art LED display technology assures the optimum in contrast. The panel PC has been equipped as standard with the Intel® Atom™ SoC E3845, 1.91 GHz. Windows 7® Ultimate or Windows 10® IoT 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 panels 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 enclosure for wall or floor mounting. They also feature an intrinsically safe USB interface for a USB Ex i flash drive. Intrinsically safe input devices can also be connected.

Explosion protection

Marking ATEX Zone 1 and 21	II 2G Ex db eb q [ib] IIC T4 Gb II 2D Ex tb IIIC T120 °C Db
Certification	IBExU 05 ATEX 1117 X
Marking IECEx	Ex db eb q [ib] IIC T4 Gb Ex tb IIIC T120 °C Db
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" W graphics-capable TFT colour display 16.7 million colors WXGA resolution, 1280 x 800 pixels Brightness 400 cd/m ² Visible surface approx. 264 x 166 mm Contrast 1000:1 Touchscreen (resistive)
Backlighting	LED technology Service life approx. 50,000 hours (at +25 °C)
Computer capacity	Processor: Intel® Atom™ E3845, 4 x 1.91 GHz 4 or 8 GB RAM 100 GB HD or 128 GB SSD (MLC)
Operating system	Windows 7® Ultimate or Windows® 10 IoT LTSC
Front panel	10 special keys and 12 inscribable function keys with LEDs Optional variant: Without front-panel keys
Interfaces (basic version)	1 x Ex e Ethernet 100/10BaseT 1 x Ex e USB 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 accessories	Hand-held scanner on request
Dimensions (B x H x T)	400 mm x 246 mm x approx. 130 mm
Wall cut-out	386 mm x 226 mm + 0.5 mm
Weight	approx. 14 kg
Power supply	DC 24 V ± 10 %
Max. power consumption	$P_{max.} < 35 \text{ W}$
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



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Ordering information

Description	Code no.	Interfaces	Code no.	Operating system	Code no.	Computer capacity	Code no.
Panel PC 12.1" W with front-panel keys	0	USB Ex e/RS422 (recommended version)	37	Windows 7 Ultimate 32bit incl. Recovery (at 4 GB RAM)	S	100 GB HD	0
Panel PC 12.1" W without front-panel keys	4	Further Interface combinations on request	XX	Windows 10 IOT LTSB 32bit (4 GB RAM) incl. Recovery and Runtime BMS Graf	K	128 GB SSD	2
				Windows 10 IOT LTSB 64bit incl. Recovery (at 8 GB RAM)	L	128 GB SSD Power Protected	5



Complete order no. 17-71V1-B [] [] / [] 0000 [] 00

Please insert correct code. Technical data subject to change without notice. You will find the accessories with order details on the accessories pages.