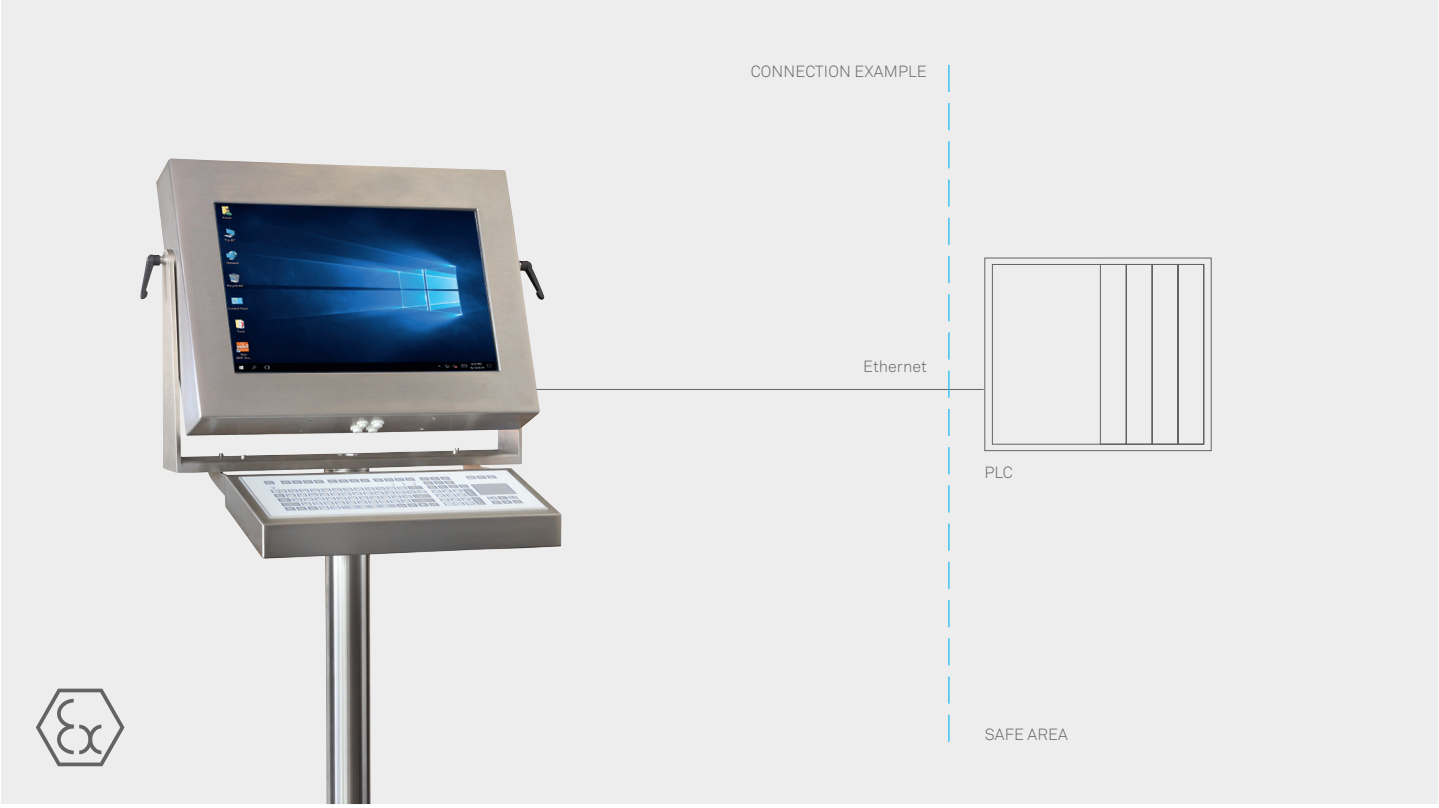
POLARIS II Professional Panel PC

Panel PC's / Thin Clients for Div. 2 / Zone 2 and 21/22



POLARIS II Panel-PC is equipped with the Intel® Processor N97 or the Intel® Core™ core ®i5-1135G7 as standard. Allows high-performance visualation and operation of the processes directly on site. Windows 11® IoT are available as an operating system.

The wired electrical connections are made in a stainless steel enclosure. State-of-the-art display technology provides optimum contrast even with a large viewing angle. The devices are available as wall, floor or ceiling mounting versions. The optional touchscreen offers the ultimate in operating comfort.

- ATEX/ IECEx/ NEC Certificate
- Optionales Smart Device: Bluetooth or W-LAN
- for Zone 2/Div. 2
- TPM 2.0 security standard, Windows 11 compliant

POLARIS II PROFESSIONAL

Keyboard with integrated Trackball for Zone 2 / 22

Keyboard with separate Trackball for Zone 1/2/21/22

Explosion protection

ATEX Ex protection type Zone 2 and 21	II 3(2)G Ex ec ib [ib IIC or IIB Gb] IIC T4 Gc II 3G Ex ec ib IIC T4 Gc II 2D (2G) Ex ib tb [ib IIC or IIB Gb] IIIC T120 °C Db
ATEX certificate number	IBExU09ATEX1053X
IECEx Ex protection type	Ex ec ib [ib IIC or IIB Gb] IIC T4 Gc Ex ec ib IIC T4 Gc Ex ib tb [ib IIC or IIB Gb] IIIC T120 °C Db
IECEx certificate number	IECEx IBE 21.0003X
NEC Ex protection type	Class I Zone 2 AEx ec ib [ib IIC or II8 Gb] IIC T4 Gc Class I Zone 2 AEx ec ib IIC T4 Gc Zone 21 AEx ib tb [ib IIC or IIB Gb] IIIC T120 °C Db Ex ec ib [ib IIC or IIB Gb] IIC T4 Gc Exec ib IIC T4 Gc Ex ib lb [ib IIC or IIB Gb] IIC T120 °C Db Class I Div. 2 Groups A, B, C, D T4 Class II Div. 2 Groups F, G T4 Class III Div. 2
NEC certificate number	MET: E116113
Ambient temperature	- 25 °C ≤ Tamb ≤ +50 °C

The marking is variable and depends on type and components used.
Other approvals and certificates, see **www.bartec.com**

Technical data

Construction	Stainless steel enclosure
Protection class	IP 65
Computer performance	**Intel® Processor N97** (quad-core up to 3.6.GHz) 4 GB RAM with 32 Bit Betriebssystem 8 GB RAM with 64 Bit Betriebssystem 256 GB SSD (MLC) alternative: **Intel® Core™ i5-1135G7** (quad-core up to 4.2GHz) 16 GB RAM 256 GB SSD (MLC) Other variants on request.
Interfaces (Basic version)	2 x Ethernet 1000 BaseT 3 x USB Type A 3 x USB Ex i Optional: Serial Interface RS232/422/485
Audio	internal PC housing loudspeaker (optional)
Bluetooth	Optional via Smart Device e.g. connection to BARTEC BCS Bluetooth hand scanner (also zone 1)
WLAN	Optional via Smart Device
Optional accessories	Hand-held scanner on request
Power supply	DC 24 V ± 10 % AC 100 to 230 V, 50 or 60 Hz
Input voltage range	DC 24 V ± 10 % AC 90 V or 253 V
Max. power consumption	$P_{max.}$ < 75 W
Admissible ambient temperatures	Storage: -25 °C to +60 °C Operation: 0 °C to +50 °C
Relative air humidity	5 to 95 % non-condensing
Material	Stainless steel, polyester film
Optional accessories	**Zone 2/22** Stainless steel enclosure with Keyboard with integrated trackball 38 mm Keyboard with integrated touchpad **Zone 1/2/21/22** Stainless steel enclosure with Keyboard and separate trackball 50 mm (POLARIS Zone 1 serie)

Variants

POLARIS II Professional	Panel PC 19,1"	Panel PC 21,5" W	Panel PC 24" W
Graphics-capable TFT colour display	19,1"	21,5" W	24" W
Colours	16.7 million	16.7 million	16.7 million
Resolution	SXGA 1280 x 1024	Full HD 1920 x 1080	Full HD 1920 x 1080
Brightness	300 cd/m²	250 cd/m²	300 cd/m²
Visible area approx.	376 x 301 mm	476 x 268 mm	531 x 299 mm
Contrast	1300:1	5000:1	5000:1
Touchscreen (resistive)	optional	optional	optional
Backlighting	LED technology	LED technology	LED technology
Service life approx. (at +25 °C)	50,000 hours	50,000 hours	50,000 hours
Display unit	610 x 450 x approx. 100 mm	610 x 450 x approx. 100 mm	660 x 450 x approx. 100 mm
With mounting adapter and keyboard	730 x 520 x approx. 400 mm	730 x 520 x approx. 400 mm	785 x 610 x approx. 400 mm
Weight	approx. 17 kg	approx. 17 kg	approx. 19 kg

Ordering information

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								A	B	C	D		E	F			G	H

A	Designation	6 – POLARIS II Panel PC 19,1" without touchscreen 5 – POLARIS II Panel PC 19,1" with touchscreen B – POLARIS II Panel PC 21,5" without touchscreen C – POLARIS II Panel PC 21,5" with touchscreen 8 – POLARIS II Panel PC 24" W without touchscreen 7 – POLARIS II Panel PC 24" with touchscreen
B	Input voltage	1 – AC 90 to 253 V 2 – DC 24 V
C	Operating system	K – Windows 10 Iot Enterprise 2016 LTSB (32 Bit) L – Windows 10 Iot Enterprise 2016 LTSB (64 Bit) M – Windows 10 Iot Enterprise 2021 LTSC (64 Bit) N – Windows 11 IoT Enterprise LTSC 2024 64 Bit O – Windows 11 IoT Enterprise LTSC 2024 64 Bit +Zero Client App
D	Computer performance	9 – Intel® Processor N97 (quad-core up to 3.6.GHz) 6 – Intel® Core™ i5-1135G7 (up to 4.2GHz, quad-core) 16 GB RAM
E	Keyboard language, integrated version	1 – German 2 – English 3 – French
	Keyboard language, separate version	1 – German 2 – English 3 – French x – others on request
F	Input device, integrated version	2 – Trackball 38 mm 4 – Touchpad
	Input device, separate version	5 – Trackball 50 mm 6 – Touchpad 7 – Joystick
GH		00 – ATEX IECEX KC – Marking for ATEX IECEX and KTL MT – Marking for ATEX IECEX and NEC MK – Marking for ATEX IECEX and KTL and NEC

Please insert code number. Subject to technical changes.
Accessories with order details can be found on the accessory pages.