POLARIS SMART HMI 7" W

The POLARIS SMART HMI 7" W is an innovative further development of the PO-LARIS series. The high-resolution display with LED backlighting and touchscreen allows intuitive and comfortable operation. It is optionally available in a capacitive or in a resistive version. The state-of-the-art LED display technology offers optimum contrast even with large viewing angles or in poor lighting conditions. As standard, the Panel PC is equipped with a third-generation processor, the Intel® Atom™ with 2 x 1.46 GHz. The open Windows operating system makes the device series unique on the market. It is also possible to work with the BMS-Graf-Pro. Connection to the control or to the process control system is facilitated by Ethernet. The front-panel insertion allows easy installation. On request, the devices are also available as ready-made system solutions in stainless-steel enclosures for wall or floor mounting. The intrinsically safe USB interfaces are accessible on the back. Intrinsically safe input devices are connected also.
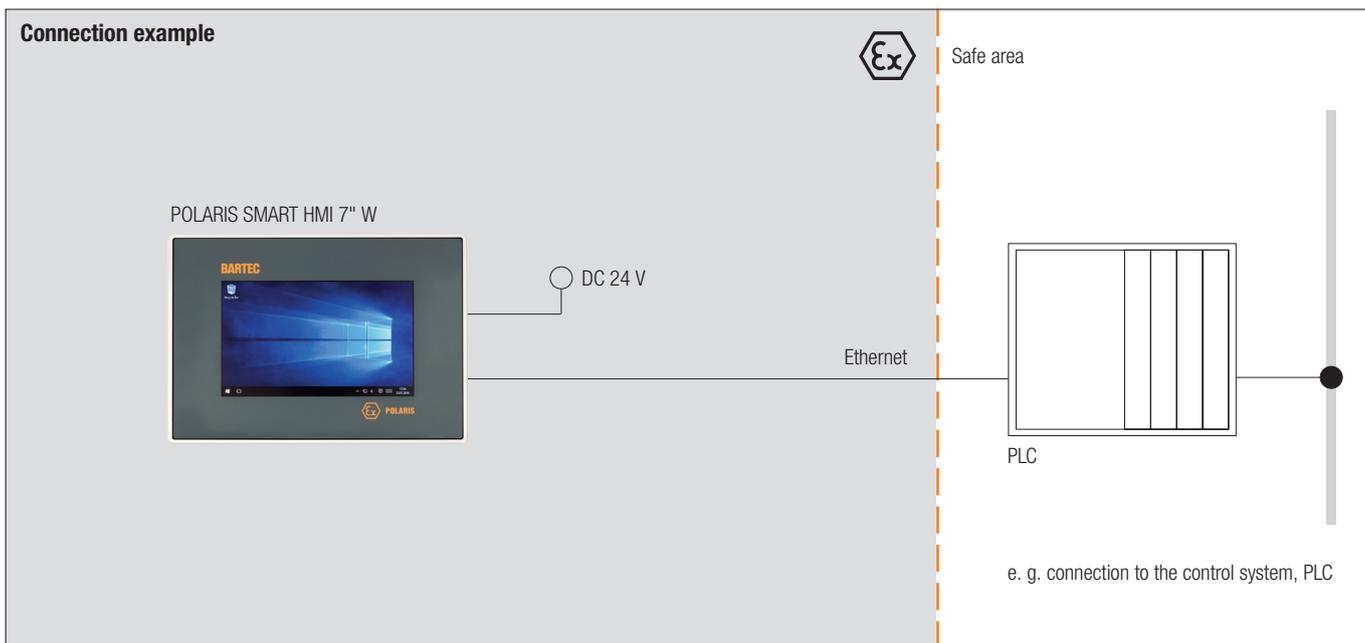
Explosion protection

Marking ATEX Zone 1 and 21	⟨Ex⟩ II 2G Ex eb q [ib] IIC T4 Gb ⟨Ex⟩ 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 11.0007X
Other approvals and certificates, see www.bartec.de	

Technical data

Construction	Front-panel fitting
Protection class	front/rear: IP 65 acc. to EN/IEC 60529 front: IP 6X acc. to EN/IEC 60079-0 rear: IP 54 acc. to EN/IEC 60079-0
Display	7" W TFT colour display 262,144 colours WVGA resolution, 800 x 480 pixels brightness 500 cd/m² visible surface approx. 152 mm x 91 mm contrast 600:1 sunlight readable display
Background lighting	LED technology service life approx. 50,000 hours (at +25 °C)
Touch	capacitive, low-reflection due to optical bonding resistive touch display (membrane touch) on request

Processor	CPU Intel® Atom™ (E 3826) Dual Core with 2 x 1.46 GHz RAM: 2 GB (optional: 4 GB) 4 GB internal Flash Drive hard-drive SSD with 128 GB (MLC)
Operating system	Windows® 10 IoT or Windows 7® Ultimate or Windows 7® Embedded
Interfaces	2 x Ex i USB 2.0 2 x Ex e USB 2.0 1 x Ethernet 100 BaseT
Dimensions (W x H x D)	240 mm x 170 mm x 80 mm
Wall cut-out	226 mm x 153 mm
Mounting position	any
Weight	approx. 4,8 kg
Power supply	DC 24 V (DC 20 to 30 V)
Supply	External supply: DC 24 V/2 A Standard operation without USB: approx. 450 mA Power dissipation $P_{max.}$ (with USB) < 25 W $P_{max.}$ (without USB) < 20 W Standard operation without USB: approx. 12.5 W
Permissible ambient temperature	Operation 0 °C to +50 °C Storage -20 °C to +60 °C
Temperature range	extended -20 °C to +60 °C
Relative air humidity	5 % to 95 % non-condensing
Material	Front resistive: polyester foil on anodised aluminium plate (conditionally UV-resistant) front capacitive: hardened glass front on anodised aluminium plate back: stainless steel

Connection example

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DC 24 V

Safe area

Ethernet

PLC

e. g. connection to the control system, PLC

Ordering information

Description	Code no.	Version	Code no.	Hard disk	Code no.	Operating system	Code no.
POLARIS SMART HMI 7" W with capacitive touchscreen	1	2 GB RAM	00	128 GB SSD	0	Windows® 10 IoT LTSB 32 bit incl. Recovery	1
						Windows 7® Ultimate 32 bit incl. Recovery	2
POLARIS SMART HMI 7" W with resistive touchscreen	2	4 GB RAM, extended temperature range	11	128 GB SSD Power Protecttool	3	BMS-Graf-pro	4
						Windows® 10 IoT LTSB 64 bit incl. Recovery (only at 4 GB RAM)	5

Complete order no. 17-71V6-1 ☐ ☐ ☐ **/** ☐ ☐ **00**
Please insert correct code. Technical data subject to change without notice.
You will find the accessories with order details on the accessories pages.