BARTEC

Kreski

POLARIS SMART HMI 7" W

for Zone 1 and 21

The POLARIS SMART HMI 7" W is an innovative further development of the POLARIS 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® AtomTM 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.

– Open operating system
– Slim and modern industrial design
– Clean-room-compliant version (gap-free)
– Optimized connection technology
– Sunlight readable display
– Low-reflective (the capacitive design)
– Optionally available as a resistive touch display

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Zapraszamy do kontaktu!
Więcej informacji: **www.kreski.pl**

Explosion protection

Notified Body Number	CE 0044
Approved Body Number	UK CA 2503
ATEX Ex protection type	Ex II 2G Ex eb q [ib] IIC T4 Gb Ex II 2D Ex tb IIIC T120 °C Db
ATEX certificate number	IBExU 05 ATEX 1117 X
IECEx Ex protection type	Ex db eb q [ib] IIC T4 Gb Ex tb IIIC T120 °C Db
IECEx certificate number	IECEx IBE 11.0007X

For further approvals and certificates, see **bartec.com**

Electrical data

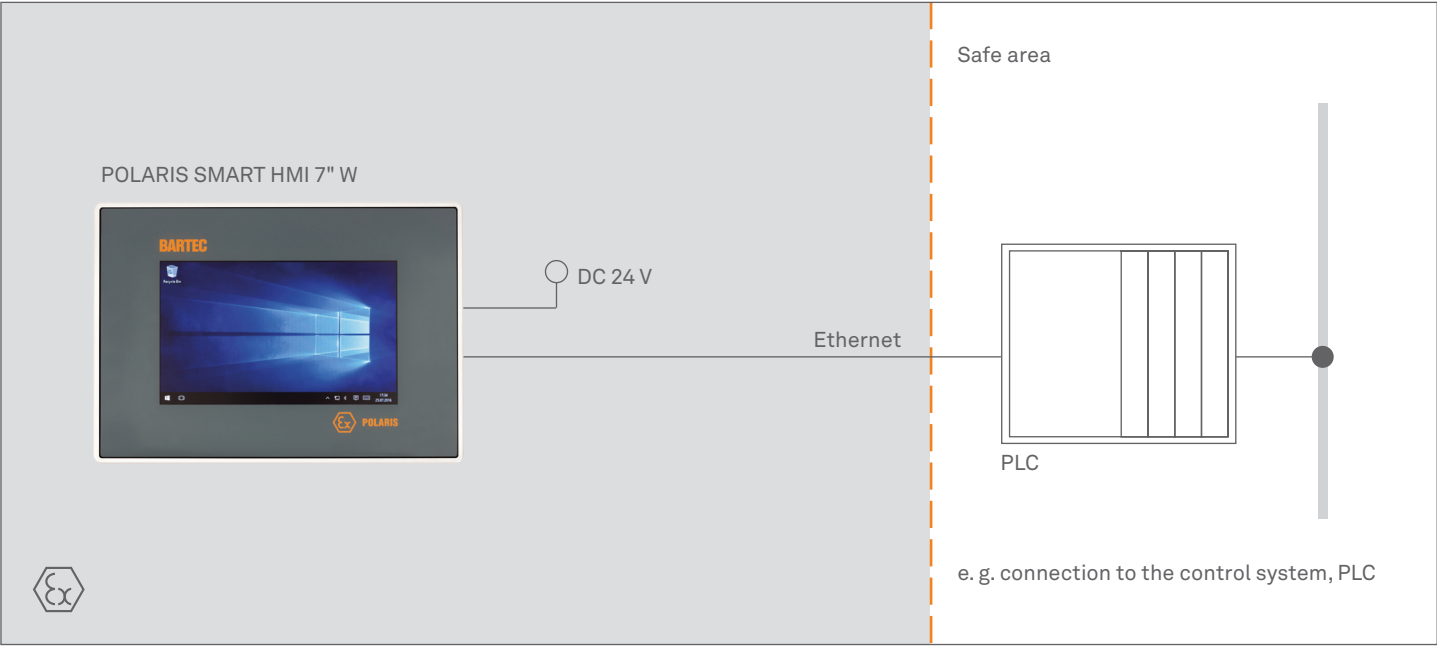|	
Supply voltage	DC 24 V (DC 20 to 30 V)
Supply	External supply: DC 24 V/2 A Standard operation without USB: approx. 450 mA Power dissipation Pmax. (with USB) < 25 W Pmax. (without USB) < 20 W Standard operation without USB: approx. 12.5 W

Technical data

Construction	Front-panel fitting
Degree of protection	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® AtomTM (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
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
Admissible ambient temperatures	Operation 0 °C to +50 °C Storage -20 °C to +60 °C 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

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Connection example

POLARIS SMART HMI 7" W

DC 24 V

Ethernet

Safe area

PLC

e. g. connection to the control system, PLC

Ordering information

Description	A	Version	BB	Hard disk	C	Operating system	D
POLARIS SMART HMI 7" W with capacitive touchscreen	1	2 GB RAM	00			Windows® 10 IoT LTSB 2016 32 bit incl. Recovery	1
						Windows 7® Ultimate 32 bit incl. Recovery	2
				128 GB SSD Power Protecttool	3	BMS-Graf-pro	4
POLARIS SMART HMI 7" W with resistive touchscreen	2	4 GB RAM, extended temperature range	11			Windows® 10 IoT LTSB 2016 64 bit incl. Recovery (only at 4 GB RAM)	5
						Windows® 10 IoT LTSC 2021 64 bit incl. Recovery (only at 4 GB RAM)	6

Complete order no.

| 1 | 7 | - | 7 | 1 | V | 6 | - | 1 | A | B | B | / | C | D | 0 | 0 |

Please insert correct code. You will find the accessories with order details on the accessories pages.

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