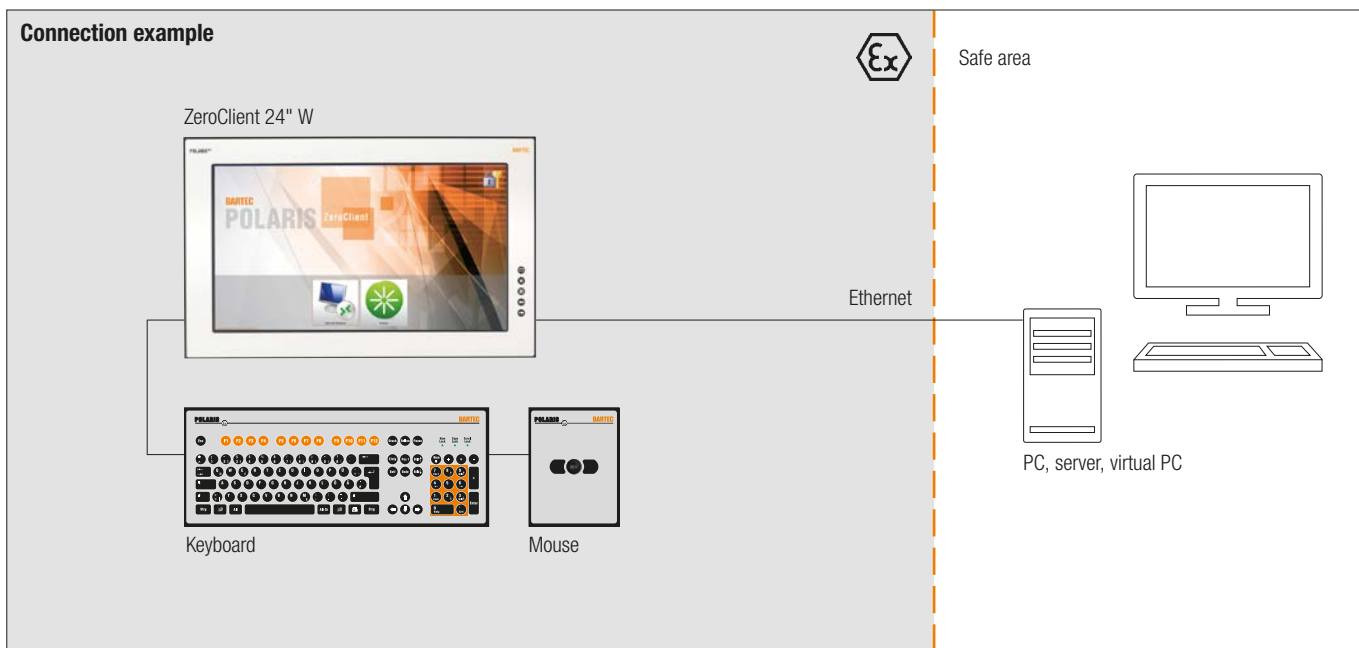The POLARIS ZeroClient series is the modern safe remote HMI series for the Zone 1 hazardous area. The connection is based on the RDP7 protocol to control a remote computer. The ZeroClient shell, developed by BARTEC itself, comes in a user-friendly tile look and was designed in conformance to today's safety standards to prevent any risks emanating from the user or the network. The wired electrical connections are made via a terminal compartment in the "e" (increased safety) type of protection. State-of-the-art display technology provides optimum contrast even with a large viewing angle. The front-panel fitting assures easy installation. On request, the devices are also available as turn-key system solutions in stainless-steel enclosures as wall, floor or ceiling mounting versions. Intrinsically safe input devices can also be connected. The optional (intrinsically safe) touchscreen offers the ultimate in operating comfort.

Explosion protection

Marking ATEX Zone 1 and 21	⟨Ex⟩ II 2G Ex db 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 11.0007 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	24" W graphics-capable TFT colour display 16.7 million colours Full HD resolution, 1920 x 1080 pixels Brightness 300 cd/m² Visible area approx. 531 x 299 mm Contrast 3000:1 Antireflection-coated glass pane Optional touchscreen (resistive)
Backlighting	LED technology Service life approx. 50,000 hours (at +25 °C)
Interfaces	1 x Ex e Ethernet 100/10BaseT (optical fibres optional) 1 x Ex e USB 1 x Ex i USB 2 x Ex i PS/2 for intrinsically safe keyboard and mouse
Optional accessories	Hand-held scanner on request
Dimensions (W x H x D)	644 mm x 406 mm x approx. 135 mm
Wall cut-out	630 mm x 392 mm + 0.5 mm
Weight	approx. 40 kg
Power supply	AC 90 to 253 V, 50 to 60 Hz DC 24 V ± 10 % on request
Max. power consumption	$P_{max.}$ < 100 W depending on the variant
Admissible ambient temperature	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) Back: bichromated sheet steel

Connection example

Safe area

ZeroClient 24" W

Ethernet

PC, server, virtual PC

Keyboard

Mouse

Ordering information

Description	Code no.	Input voltage range	Code no.
ZeroClient 24" W without touchscreen	**C**	AC 90 to 253 V	**0**
ZeroClient 24" W with touchscreen	**D**	DC 24 V	**2**

Complete order no. 17-71V1-☐ 072/Z000/☐ 200
Please insert correct code. Technical data subject to change without notice.
You will find the accessories with order details on the accessories pages.