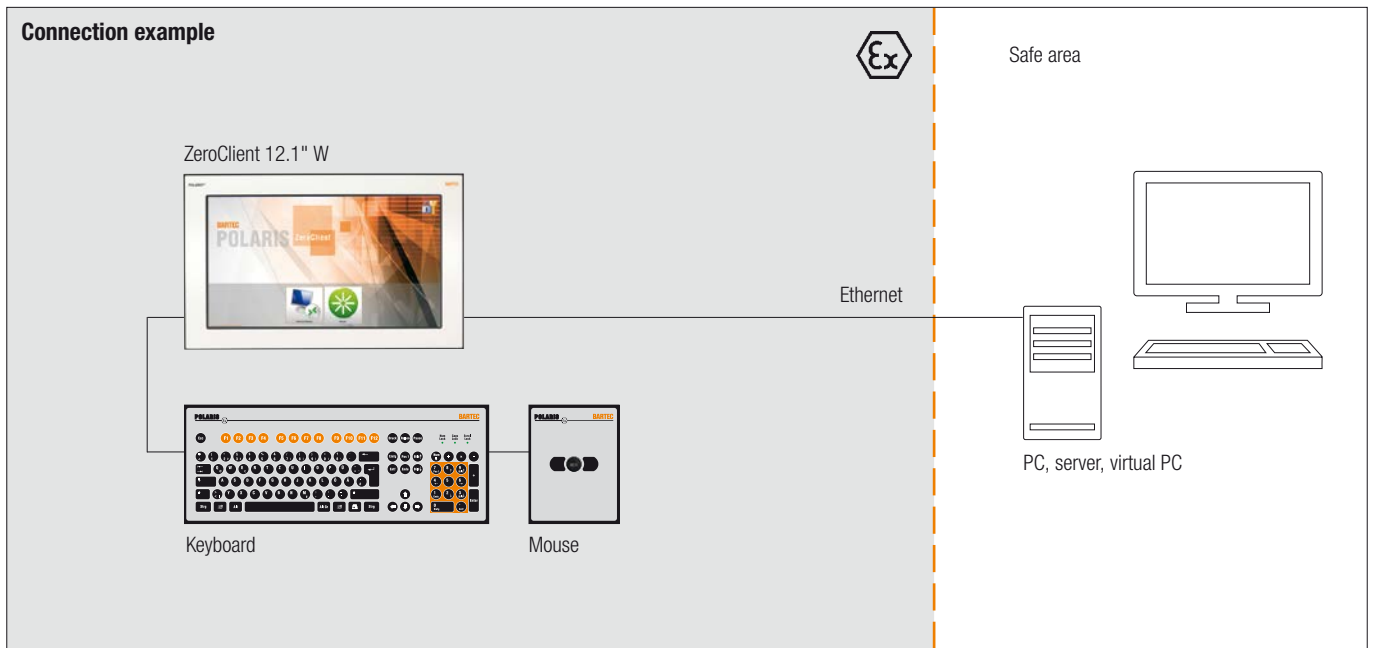The POLARIS ZeroClient series is the modern safe remote HMI series for the Zone 1 hazardous area. The connection is based on the RDP7 protocol to control a remote computer. The ZeroClient shell, developed by BARTEC itself, comes in a user-friendly tile look and was designed in conformance to today's 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 und 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	12.1" W graphics-capable TFT colour display 262,144 colours WXGA resolution, 1280 x 800 pixels Brightness 400 cd/m² Visible surface approx. 264 x 166 mm Contrast 1200:1 Touchscreen (resistive)
Backlighting	LED technology Service life approx. 50,000 hours (at +25 °C)
Interfaces	1 x Ex e Ethernet 100/10BaseT 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)	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	$P_{max.} < 35$ W
Permissible ambient temperatures	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

ZeroClient 12.1" W

Safe area

Ethernet

PC, server, virtual PC

Keyboard

Mouse

Ordering information

POLARIS REMOTE ZeroClient 12.1" W with touchscreen	**17-71V1-B436/Z000**

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