



## POLARIS ZeroClient 12.1" W

### Features

- Safety principle
- Direct linkage in explosive areas
- Ethernet interface
- Easy front panel fitting
- Graphic-capable TFT colour display

### Description

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 be connected also. The optional (intrinsically safe) touch screen offers the ultimate in operating comfort.

### Explosion protection

#### Ex protection type Zone 1 and 21

**ATEX** Ex II 2G Ex db eb qb [ib op pr] IIC T4  
Ex II 2D Ex tb IIIC T120 °C

#### Certification

IBExU 05 ATEX 1117 X

**IECEX** Ex db eb qb [ib op pr] IIC T4  
Ex tb IIIC T120 °C

#### Certification

IECEX IBE 11.0007 X

#### Further approvals

INMETRO, GOST-R

#### Protection class

IP 65 (front)  
IP 54 (back)

#### Variant Zone 2

see BARTEC Internet: [www.bartec-group.com](http://www.bartec-group.com)

### Technical data

#### Construction

Front panel fitting

#### Display

- 12.1" W graphics-capable TFT colour display
- 262,144 colours
- WXGA resolution, 1280 x 800 pixels
- Brightness 400 cd/m<sup>2</sup>
- Visible surface approx. 264 x 166 mm
- Contrast 1200:1
- Touchscreen (resistive)

#### Backlight illumination

- LED technology
- Service life approx. 50,000 hours (at +25 °C)

#### Interfaces

- 1 x Ex e Ethernet 100/10BaseT (option of optical fibres)
- 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 (width x height x depth)

400 mm x 246 mm x approx. 130 mm

#### Wall cut-out

386 mm x 226 mm + 0.5 mm

#### Weight

approx. 14 kg

#### Supply voltage

DC 24 V ± 10 %

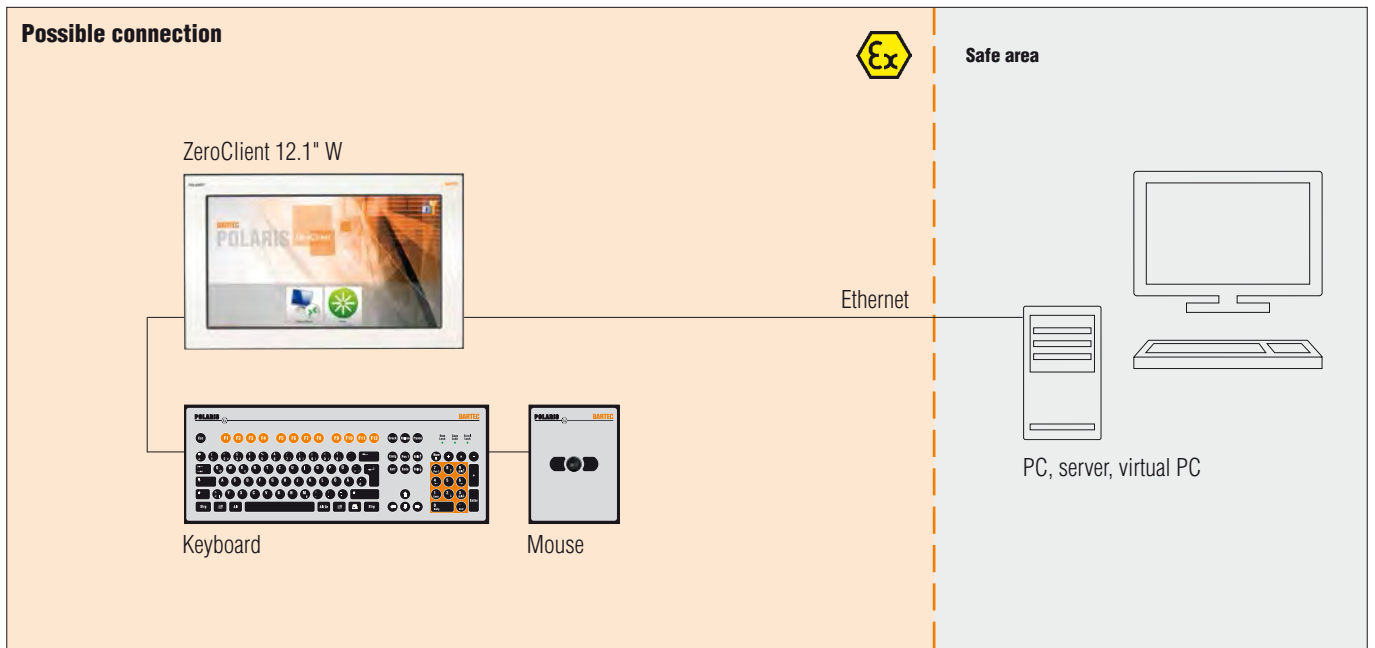
#### Max. power consumption

$P_{max} < 35 \text{ W}$

#### 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



**Order no.**

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

Technical data subject to change without notice.

You will find the accessories with order details on the accessories pages.