



POLARIS ZeroClient 15"

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 II 2G Ex db eb qb [ib op pr] IIC T4
 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

Technical data

Construction

Front panel fitting

Display

- 15" graphic-capable TFT colour display
- 16.7 Mio. colours
- XGA resolution 1024 x 768 pixels
- Brightness up to 350 cd/m²
- Visible area approx. 304 x 228 mm
- Contrast 700:1
- Antireflection coating glass pane
- Optional 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)

411 mm x 332 mm x approx. 135 mm

Wall cut-out

394.5 mm x 315.5 mm + 0.5 mm

Weight

approx. 23 kg

Supply voltage

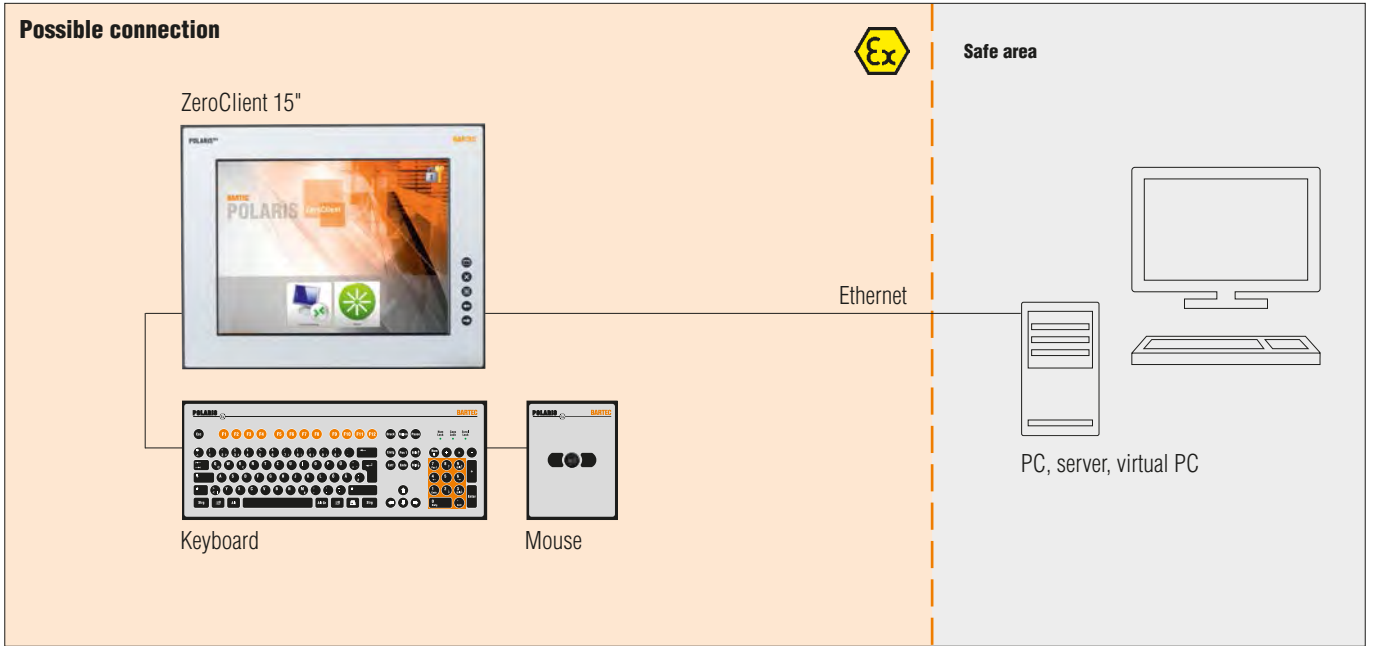
DC 24 V ± 10 %

AC 100 to 230 V, 50 to 60 Hz

Input voltage range

DC 24 V ± 10 %

AC 90 V to 253 V



Max. power consumption

$P_{max} < 70 \text{ W}$

Admissible ambient temperatures

Storage -20 °C to +50 °C

Operation 0 °C to +50 °C

System solution with heating on request.

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 galvanised sheet steel, bichromated

Selection chart

Version	Code no.	Input voltage range	Code no.
ZeroClient 15" without touchscreen	4	AC 90 to 253 V	0
ZeroClient 15" with touchscreen	6	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.