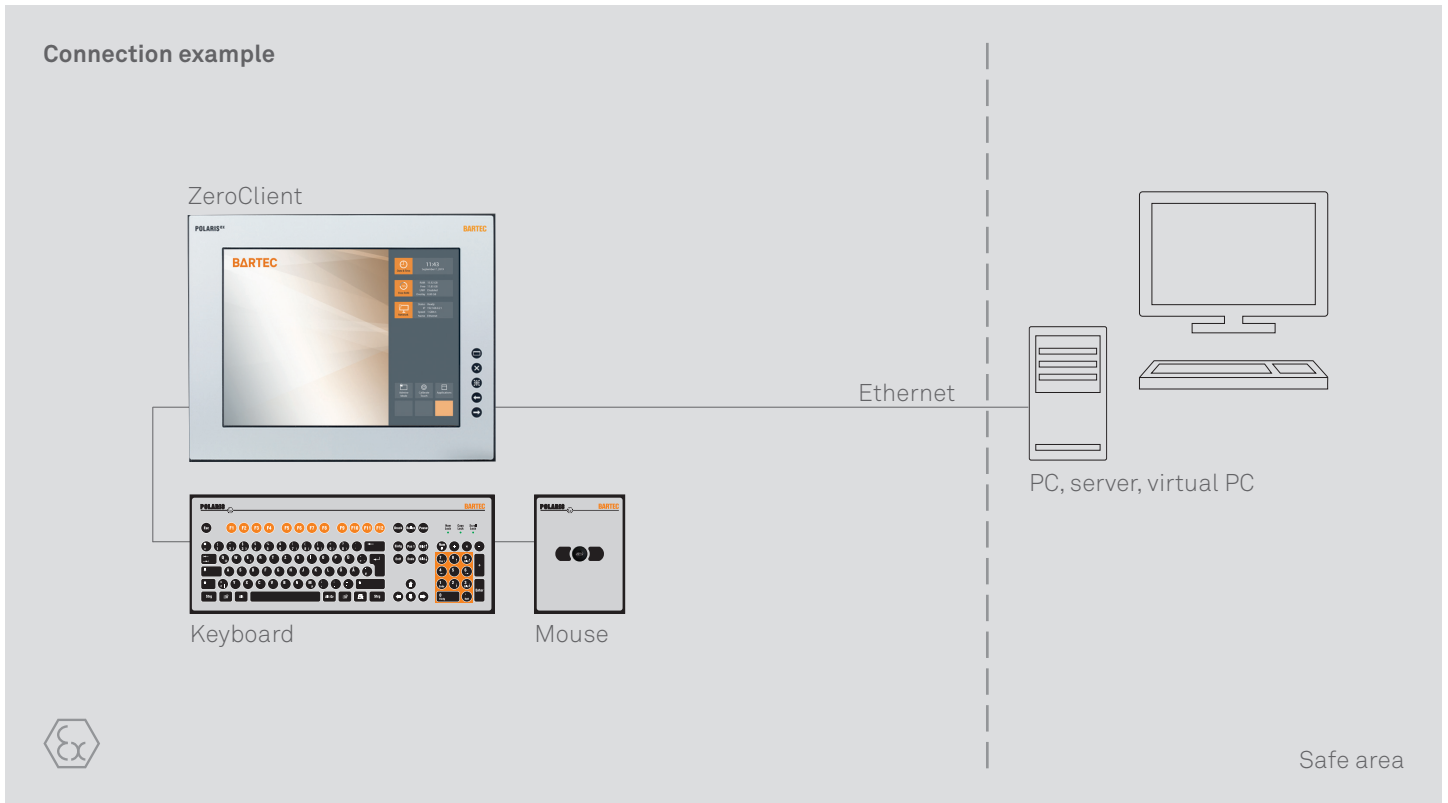


# Polaris Remote ZeroClient

for Zone 1 and 21



The POLARIS ZeroClient series is the modern safe remote HMI series for the Zone 1 hazardous area. The connection is based on the RDP10 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.

- Bartec Zero Client Shell
- Based on the RDP 10 protocol
- Optional Smart Device: Bluetooth or W-LAN



POLARIS Remote ZeroClient 15"



POLARIS Remote ZeroClient 15" Sunlight



POLARIS Remote ZeroClient 19.1"



POLARIS Remote ZeroClient 12.1" W



POLARIS Remote ZeroClient 17.3" W



POLARIS Remote ZeroClient 24" W

## 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
	Variant for Zone 2, other approvals and certificates, see <a href="http://bartec.com">bartec.com</a>

## Technical data

Construction	Front-panel fitting
Protection class	IP 65 (front) IP 54 (back)
Interfaces	1 x Ex e Ethernet 100/10BaseT (optical fibres optional) 1 x Ex e USB 1 x RS 422 1 x Ex i USB 2 x Ex i PS/2 for intrinsically safe keyboard and mouse
Optional accessories	Hand-held scanner on request
Power supply	DC 24 V ± 10 % AC 100 to 230 V, 50 or 60 Hz
Input voltage range	DC 24 V ± 10 % AC 90 V or 253 V (12.1" W only in DC version)
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. for 15" Sun light: Storage -20 °C to +60 °C Operation -20 °C to +60 °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

## Variants

POLARIS Remote	ZeroClient 15"	ZeroClient 15" Sunlight	ZeroClient 19.1"	ZeroClient 12.1" W	ZeroClient 17.3" W	ZeroClient 24" W
<b>Display</b>						
Graphics-capable TFT colour display	15"	15"	19.1"	12.1" W	17,3" W	24" W
Colours	16.7 million	16.7 million	16.7 million	262.144	16.7 million	16.7 million
Resolution	XGA 1024 x 768 pixels	XGA 1024 x 768 pixels	SXGA 1280 x 1024 pixels	WXGA 1280 x 800 pixels	Full HD 1920 x 1080 pixels	Full HD 1920 x 1080 pixels
Brightness	350 cd/m <sup>2</sup>	1000 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>	400 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>
Visible area approx.	304 x 228 mm	304 x 228 mm	380 x 305 mm	264 x 166 mm	382 x 215 mm	531 x 299 mm
Contrast	700:1	700:1	1300:1	1200:1	600:1	3000:1
Antireflection-coated glass pane	yes	yes	yes	yes	yes	yes
Touchscreen (resistive)	optional	yes	optional	yes	optional	optional
Backlighting	LED technology	LED technology	LED technology	LED technology	LED technology	LED technology
Service life approx. (at +25 °C)	50,000 hours	50,000 hours	50,000 hours	50,000 hours	50,000 hours	50,000 hours
<b>Dimensions</b>						
Dimensions (W x H x D in mm)	411 x 332 x approx. 135	411 x 332 x approx. 135	498 x 400 x approx. 135	400 x 246 x approx. 130	503 x 314 x approx. 135	644 x 406 x approx. 135
Wall cut-out (in mm)	394.5 x 315.5 + 0.5	394.5 x 315.5 + 0.5	484 x 386.5 + 0.5	386 x 226 + 0.5	489 x 301 + 0.5	630 x 392 + 0.5
Weight	approx. 23 kg	approx. 23 kg	approx. 33 kg	approx. 14 kg	approx. 33 kg	approx. 40 kg

## Order details

1 7 - 7 1 V 1 - \* \* 7 6 / Y 0 0 0 / \* 2 0 0  
**A A B**

**AA** Designation  
 40 – ZeroClient 15" without touchscreen  
 60 – ZeroClient 15" with touchscreen  
 62 – ZeroClient 15" Sunlight with touchscreen  
 50 – ZeroClient 19.1" without touchscreen  
 70 – ZeroClient 19.1" with touchscreen  
 F0 – ZeroClient 17.3" W with touchscreen  
 C0 – ZeroClient 24" W without touchscreen  
 D0 – ZeroClient 24" W with touchscreen

**B** Version  
 0 – AC 90 to 253 V  
 2 – DC 24 V

Please insert code number. Subject to technical changes.  
 Accessories with order details can be found on the accessory pages.

## Order number

ZeroClient 12.1" W with Touchscreen

1 7 - 7 1 V 1 - B 4 3 6 / Y 0 0 0

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