



## POLARIS Remote 19.1"

### Features

- Easy front panel fitting
- Graphic-capable TFT colour display
- Easy wiring
- Connection of standard PCs in non-hazardous areas
- Optional touchscreen
- Transmission through fibre optical waveguide or copper
- OSD menu, with setting keys on the front
- Reduction in costs by cascading several POLARIS remote devices to one PC

### Description

The POLARIS Remote 19.1" unit by BARTEC is a display with keyboard and mouse with which a PC can be operated in safe areas of hazardous areas.

Distances of up to 10,000 m are possible.

POLARIS Remote 19.1" offers the user the possibility of using any currently available PC-based process control system, without any restrictions in the Ex area.

The front panel installation assures ease of mounting. Upon request, the devices are also available as turn-key system solutions in a stainless steel enclosure as wall, floor or ceiling mounting versions.

The screen of the Remote 19.1" is a TFT display with an SXGA resolution and is characterised by its excellent brilliance and a very large reading angle.

Intrinsically safe input devices can be connected also. Optionally, a touchscreen (intrinsically safe), assuring an absolutely maximum operator convenience, is available.

Connection in the safe area is realized via a local unit (included in delivery).

### 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 for Zone 2

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

### Technical data

#### Construction

Front panel fitting

#### Display

- 19.1" graphic-capable TFT colour display
- 16.7 million colours
- SXGA resolution 1280 x 1024 pixels
- Brightness 300 cd/m<sup>2</sup>
- Visible area approx. 380 x 305 mm
- Contrast 1300:1
- Antireflection coating glass pane
- Optional touchscreen

#### Backlight illumination

- LED technology
- Service life approx. 40,000 hours (at +25 °C)

#### Connection to the PC

- Connection to VGA
- PS/2 keyboard and PS/2 mouse port
- via cable STP/S; 4 x 2 x 23 AWG optionally via fibre optic cable

#### Requirement to the base station

Keyboard and mouse with a PS/2 connector; VGA connection or graphics card with the following technical data:

- VGA, SVGA, XGA, SXGA resolution
- Vertical sync frequency 60 to 75 Hz

#### Transmission distance

- up to 300 m via STP/S copper cable
- up to 400 m via 50 µm multi-mode fibre optic cable
- up to 10,000 m via 9 µm single-mode fibre optic cable (on request)

#### Power supply

AC 90 to 253 V, 50 to 60 Hz  
DC 24 V ± 10 % on request

#### Max. power consumption

$P_{max} < 60 \text{ W}$



Video  
Keyboard  
Mouse

Local unit

Patch cable

Network outlet  
RJ 45 system

### Safe area



Remote 19.1"

Keyboard

Mouse

STP/S CAT.6/CAT.7 cable  
4 x 2 twisted pair

**Dimensions** (width x height x depth)

498 mm x 400 mm x approx. 135 mm

### Wall cut-out

484 mm x 386.5 mm + 0.5 mm

**Weight**

approx. 33 kg

### Admissible ambient temperatures

Storage -20 °C to +50 °C

Storage	-55 °C to +100 °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.	Interfaces	Code no.
Remote 19.1" without touchscreen	5	for STP/S copper cable (up to max. 300 m)	00
		for STP/S copper cable (up to max. 300 m) supply module for hand-held scanner*	04
Remote 19.1" with touchscreen	7	for 50 µm multi-mode fibre optic cable (up to max. 400 m)	08
		for 50 µm multi-mode fibre optic cable (up to max. 400 m), supply module for hand-held scanner*	12

\*(not with touchscreen)



Please insert correct code.

Technical data subject to change without notice.

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