BARTEC

POLARIS Remote 24"

Features

- Easy front panel fitting
- Full HD resolution
- 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

Description

The POLARIS Remote 24" 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 24" 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 24" is a TFT display with an Full HD 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

➔ Technical data

Construction
Front panel fitting

Display
- 24" graphic-capable TFT colour display
- 16.7 million colours
- Full HD resolution 1920 x 1080 pixels
- Brightness 300 cd/m^2
- Visible area approx. 531 x 299 mm
- Contrast 3000:1
- Antireflection coating glass pane
- Optional touchscreen

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

Connection to the PC
with local unit (plug & play)
by means of STP/S cables 4 x 2 x 23 AWG
- 1 x DVI in
- 1 x DVI out (local monitor)
- 1 x USB for keyboard/mouse/touchscreen and option of hand-held scanner

Cable length
- up to 100 m of STP/S copper cable on request
- up to 500 m of 50 µm multi-mode
- up to 10 000 m of 9 µm single-mode

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

Max. power consumption
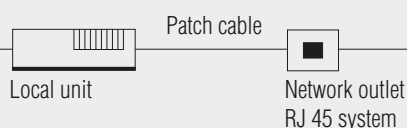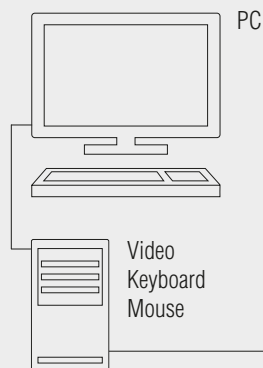$P_{max.} < 60$ W

Dimensions (width x height x depth)
644 mm x 406 mm x approx. 135 mm

Wall cut-out
630 mm x 392 mm + 0.5 mm

Possible connection

Safe area

PC

Video
Keyboard
Mouse

Local unit

Patch cable

Network outlet
RJ 45 system

Remote 24"

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

Weight
approx. 40 kg

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.	Interfaces	Code no.
Remote 24" without touchscreen	**C**	for STP/S copper cable (up to max. 100 m)	**17**
		for STP/S copper cable (up to max. 100 m) supply module for hand-held scanner*	**18**
Remote 24" with touchscreen	**D**	for 50 µm multi-mode fibre optic cable (up to max. 500 m)	**on request**
		for 50 µm multi-mode fibre optic cable (up to max. 500 m), supply module for hand-held scanner*	**on request**

*(not with touchscreen)

➡ **Complete order no. 17-71V2-** ☐ **0** ☐☐
Please insert correct code.
Technical data subject to change without notice.
You will find the accessories with order details on the accessories pages.