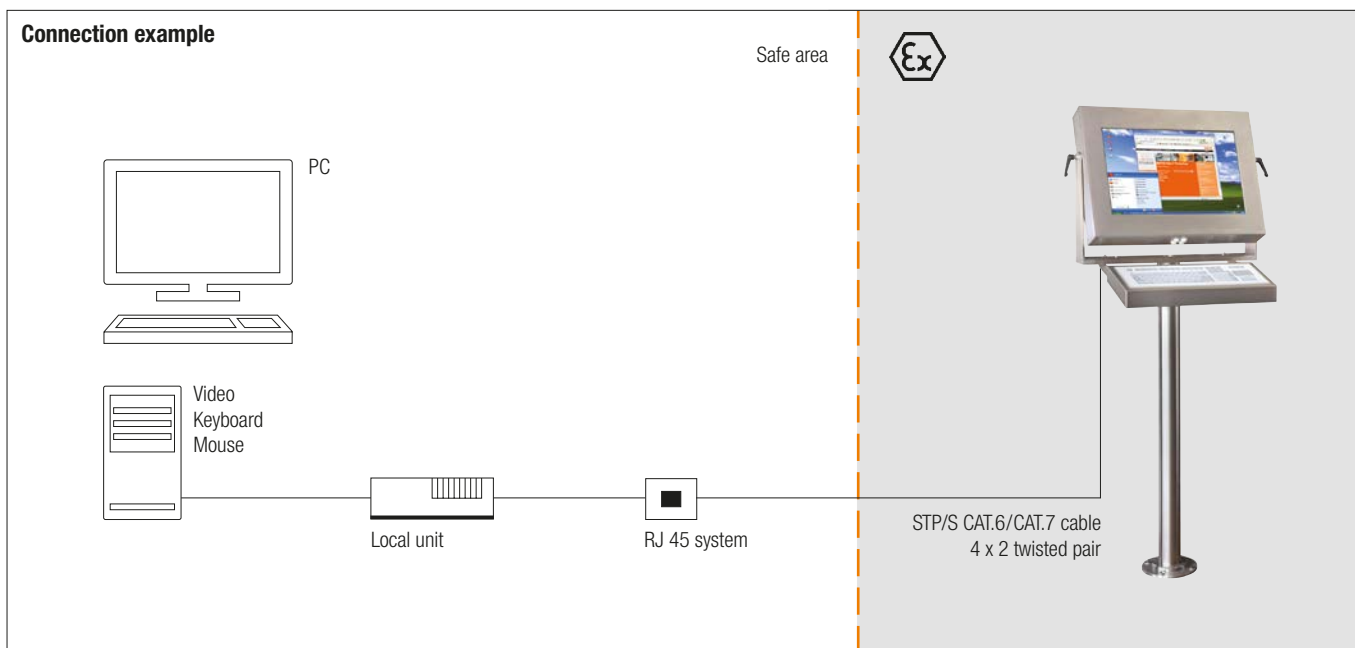The POLARIS II Remote 22" W from BARTEC is a display which enables a PC to be operated in safe areas of hazardous areas. Distances of up to 200 m are possible. POLARIS II Remote 22" W allows the user the possibility of utilising any currently available PC-based process control systems without restrictions in the Ex areas. The devices are also available for wall, floor or table mounting for optimum use. The POLARIS II Remote 22" W screen is a TFT display with WSXGA+ resolution and is distinguished by its outstanding brilliance and a very large reading angle. A keyboard with integrated trackball or touchpad is available. The optional (intrinsically safe) touchscreen offers the ultimate in operating comfort. Linking in the safe area is established through a local unit (included in the scope of delivery).

Explosion protection

Marking ATEX Zone 2	⟨Ex⟩ II 3G Ex nA ic IIC T5 Gc -25 °C ≤ T_a ≤ +50 °C
Certification	IBExU 09 ATEX 1113 X
Marking ATEX Zone 21/22	⟨Ex⟩ II 2D Ex ib tb IIIC T100 °C Db
Certification	IBExU 09 ATEX 1113 X
Other approvals and certificates, see www.bartec.de	

Technical data

Construction	Stainless-steel enclosure
Protection class	IP 65
Display	22" W graphics-capable TFT colour display 16.7 million colours WSXGA+ resolution, 1680 x 1050 pixels Brightness 300 cd/m² Visible surface approx. 474 x 296 mm Contrast 600:1 Optional touchscreen (resistive)
Backlighting	CFL technology Service life approx. 50,000 hours (at +25 °C)
Conductor length	up to 200 m through STP cable VGA/PS2 up to 130 m through STP cable DVI/USB up to 500 m through multi-mode optical fibre cable DVI/USB up to 20 km through single-mode optical fibre cable DVI/USB
Dimensions (W x H x D)	610 mm x 450 mm x approx. 100 mm
Weight	approx. 17 kg
Rated voltage	AC 110 to 230 V, 47 to 63 Hz DC 24 V
Input voltage range	AC 90 to 253 V DC 24 V ± 10 %
Max. power consumption	$P_{max.}$ < 75 W
Permissible ambient temperatures	Storage -25 °C to +60 °C Operation 0 °C to +50 °C
Relative air humidity	5 to 95 % non-condensing
Material	Stainless steel
Optional accessories	Keyboard with integrated trackball 38 mm Keyboard with integrated trackball 50 mm Keyboard with integrated touchpad

Connection example

Safe area

PC

Video
Keyboard
Mouse

Local unit

RJ 45 system

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

Ordering information

Ex area	Code no.	Version	Code no.	Input voltage	Code no.	Conductor length	Code no.	Keyboard language	Code no.	Insert unit	Code no.
Zone 21/22	1	POLARIS II Remote 22" W without touchscreen	4	AC 90 to 253 V	1	up to 200 m through STP cable VGA/PS2	0	German	1	Trackball 50 mm	1
						up to 130 m through STP cable DVI/USB	4	English	2	Trackball 38 mm	2
Zone 2	2	POLARIS II Remote 22" W with touchscreen	3	DC 24 V	2	up to 500 m through multi-mode optical fibre cable DVI/USB	5				
						up to 20 km through single-mode optical fibre cable DVI/USB	6	French	3	Touchpad	4

Complete order no. 17-7 ☐ V5- ☐☐ 0 ☐ / ☐☐ 00
Please insert correct code. Technical data subject to change without notice. Other versions on request.