



## POLARIS Touch Panel 12.1"

### Features

- LED technology
- Higher screen resolution
- Touchscreen
- Remote desktop solution
- Presentation of HTML pages
- Direct connection in hazardous areas

### Description

The POLARIS Touch Panel 12.1" is an innovative further development of the POLARIS Panel PCs 12.1".

High-resolution displays with LED technology and touchscreen for intuitive as well as comfortable operation are available now in the standard variant.

State-of-the-art LED display technology ensures the optimum contrast even with a large viewing angle.

The proven LX800 offers sufficient computer capacity for presenting HTML pages or functioning as a remote client.

Of course, here too the user can work with the latest "BMS-Graf-pro" Runtime 7 under Windows® XP Embedded, for example for the transmission of projects over the Ethernet, the use of graphics lists or an integrated user administration.

The front-panel fitting makes mounting easy. On request, the devices are also available as turn-key system solutions in a stainless steel enclosure for wall, floor or ceiling mounting.

An intrinsically safe USB interface is available for a USB Ex i memory stick. Intrinsically safe input devices can be connected also.

### Explosion protection

#### Ex protection type Zone 1 and 21

**ATEX** Ex II 2G Ex db eb qb [ib op pr] IIC T4  
Ex 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](http://www.bartec-group.com)

### Technical data

#### Construction

Front-panel fitting

#### Display

- 12.1" TFT graphic display
- 262,144 colours
- Resolution XGA 1024 x 768 pixels
- Brightness 500 cd/m<sup>2</sup>
- Visible surface approx. 246 x 184 mm
- Contrast 700:1
- Touchscreen (resistive)

#### Background lighting

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

#### Computer capacity

LX800 processor, 500 MHz  
Compact Flash 4 GB

#### Operating system

- Windows® XP Embedded (pre-installed)

#### Keyboard (short-stroke keys)

- Alphanumeric key block
- 4 cursor keys
- 12 cursor keys
- 16 function keys able to be labelled with LEDs

#### Interfaces (basic version)

- 1 x Ex e Ethernet 100/10BaseT (option of optical fibres)
- 1 x Ex e RS422
- 1 x Ex i USB for Ex i memory stick
- 1 x Ex i PS/2 for intrinsically safe mouse

#### Optional interfaces

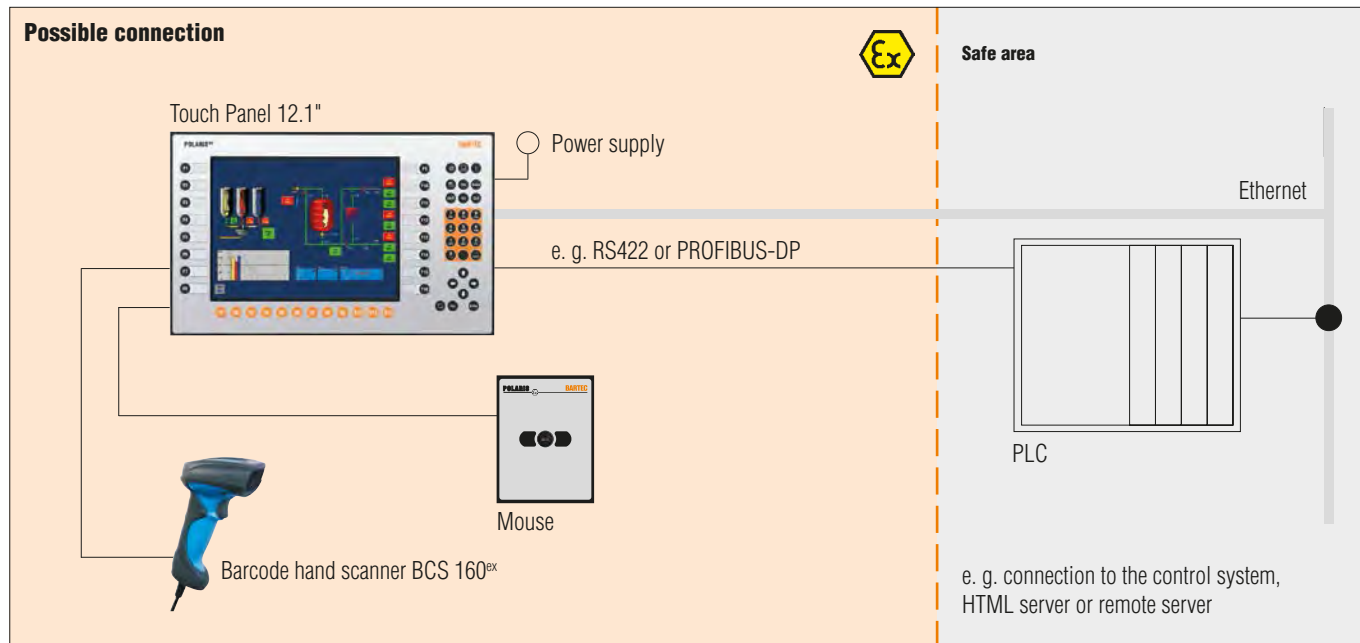
1 x Ex i Supply module for hand-held scanners

#### Dimensions (width x height x depth)

440 mm x 275 mm x approx. 130 mm

#### Wall cut-out

425 mm x 255 mm + 0.5 mm



**Weight**

approx. 18 kg

**Supply voltage**

DC 24 V  $\pm$  10 %

**Max. power consumption**

$P_{max} < 35$  W

**Permissible ambient temperatures**

Storage -20 °C to +50 °C

Operation 0 °C to +50 °C

**Variant**

Operation -20 °C to +50 °C  
on request (without external heating)

**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

**Selection chart**

Version	Interfaces	Code no.
Touch Panel 12.1"	RS422	<b>00</b>
	BARTEC PROFIBUS-DP	<b>02</b>
	RS422, supply module for hand-held scanners	<b>04</b>
	BARTEC PROFIBUS-DP, supply module for hand-held scanners	<b>06</b>
	RS232	<b>09</b>
	TTY	<b>11</b>
	RS232, supply module for hand-held scanners	<b>13</b>
	TTY, supply module for hand-held scanners	<b>15</b>
	BARTEC PROFIBUS-DP, Ex d-USB	<b>33</b>
	RS422/Ex e USB	<b>37</b>
	Further Interface combinations on request	<b>XX</b>



**Complete order no. 17-71V1-80   /X000**

Please insert correct code. Technical data subject to change without notice.  
You will find the accessories with order details on the accessories pages.