

The POLARIS Touch Panel 10.4" is an innovative further development of the POLARIS Panel PCs 10.4". 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. Allows a high-performance visual display and operation of the processes directly on site. 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 or floor mounting. An intrinsically safe USB interface is available for a USB Ex i memory stick. Intrinsically safe input devices can also be connected.

### Explosion protection

Marking ATEX  II 2G Ex db eb q [ib] IIC T4 Gb  
Zone 1 and 21  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

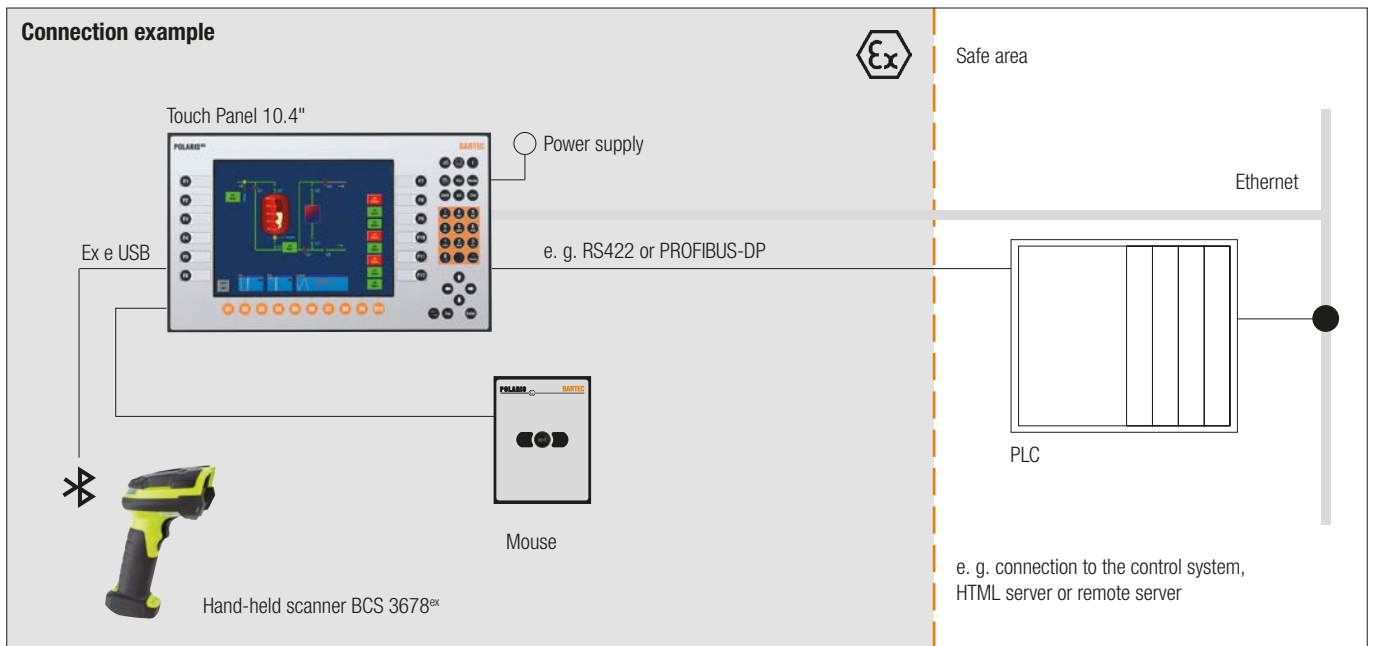
Certification IECEx IBE 11.0007 X

Other approvals and certificates, see [www.bartec.de](http://www.bartec.de)

Variant for Zone 2 [www.bartec.de](http://www.bartec.de)

### Technical data

|                                     |   |
|-------------------------------------|---|
| Construction                        | Front-panel fitting   |
| Protection class                    | IP 65 (front)<br>IP 54 (back)   |
| Display                             | 10.4" TFT graphic display<br>262,144 colours<br>Resolution SVGA 800 x 600 pixels<br>Brightness 400 cd/m <sup>2</sup><br>Visible surface approx. 211 x 158 mm<br>Contrast 700:1<br>Touchscreen (resistive) |
| Backlighting                        | LED technology<br>Service life approx. 50,000 hours (at +25 °C)   |
| Computer capacity                   | LX800 processor, 500 MHz<br>Compact Flash 4 GB  |
| Operating system                    | Windows® XP Embedded (pre-installed)  |
| Interfaces<br>(basic version)       | 1 x Ex e Ethernet 100/10BaseT<br>1 x Ex e RS422<br>1 x Ex i USB for Ex i memory stick<br>1 x Ex i PS/2 for intrinsically safe mouse   |
| Keyboard<br>(short-stroke keys)     | Alphanumeric key block<br>4 cursor keys<br>10 special keys<br>12 function keys able to be labelled with LEDs  |
| Optional accessories                | Hand-held scanner on request  |
| Abmessungen (W x H x D)             | 400 mm x 246 mm x approx. 130 mm  |
| Wall cut-out                        | 386 mm x 226 mm + 0.5 mm  |
| Weight                              | approx. 14 kg   |
| Power supply                        | DC 24 V ± 10 %  |
| Max. power consumption              | P <sub>max.</sub> < 30 W  |
| Permissible<br>ambient temperatures | Storage -20 °C to +50 °C<br>Operation 0 °C to +50 °C<br>Variant<br>Operation -20 °C to +50 °C<br>on request (without external heating)  |
| Relative air humidity               | 5 to 95 % non-condensing  |
| Vibration                           | 0.7 g/1 mm;<br>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<br>(conditionally UV-resistant)<br>Back: bichromated sheet steel  |



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**Ordering information**

| Description       | Interfaces                                | Code no.  |
|-------------------|---|-----------|
| Touch Panel 10.4" | USB Ex e/RS422 (recommended version)      | <b>37</b> |
|                   | RS485                                     | <b>38</b> |
|                   | BARTEC PROFIBUS-DP                        | <b>02</b> |
|                   | RS232                                     | <b>09</b> |
|                   | TTY                                       | <b>11</b> |
|                   | BARTEC PROFIBUS-DP, Ex d-USB              | <b>33</b> |
|                   | Further Interface combinations on request | <b>XX</b> |

**Complete order no. 17-71V1-90   /X000**

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