

## POLARIS Control

### Features

- Graphic-capable, readable daylight blue-colour display
- Easy front panel fitting
- Intrinsically safe USB interface
- Direct linkage in explosive areas

### Description

The POLARIS Control is the ideal solution for all simple applications requiring texts and small-scale graphics.

For the display, an extremely conveniently readable daylight blue-colour display is utilised.

With the Control, process visualizations can be directly connected in explosive areas without the need for additional intrinsically safe isolation cards. The laying of blue lines for intrinsically safe circuits is dropped. A separate wiring of the data line is not necessary.

The POLARIS Control can be directly connected to the PROFIBUS-DP or the communication interface of the control station. Available are e. g. RS422/RS485, PROFIBUS-DP.

An intrinsically safe USB interface for a USB Ex i-memory stick enables the device configuration's easy transferability.

On request the devices are also available as a ready-to-use system solution in a stainless steel enclosure for wall, floor or ceiling mounting.

The visualisation is created with the "BMS-Grafpro" programming package (Version 6.xxx), which has been specially developed and optimised for that purpose.

### ➔ Explosion protection

**Ex protection type Zone 1 and 21**

**ATEX** II 2G Ex db eb qb [ib] IIC T4  
 II 2D Ex tb IIIC T120 °C

#### Certification

IBExU 05 ATEX 1117 X

**IECEx** Ex db eb qb [ib] 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

- LCD display
- 2 colours white/blue
- 240 x 64 pixels
- Visible area approx. 133 x 40 mm
- Antireflection coating glass pane
- Daylight display technology

#### Backlight illumination

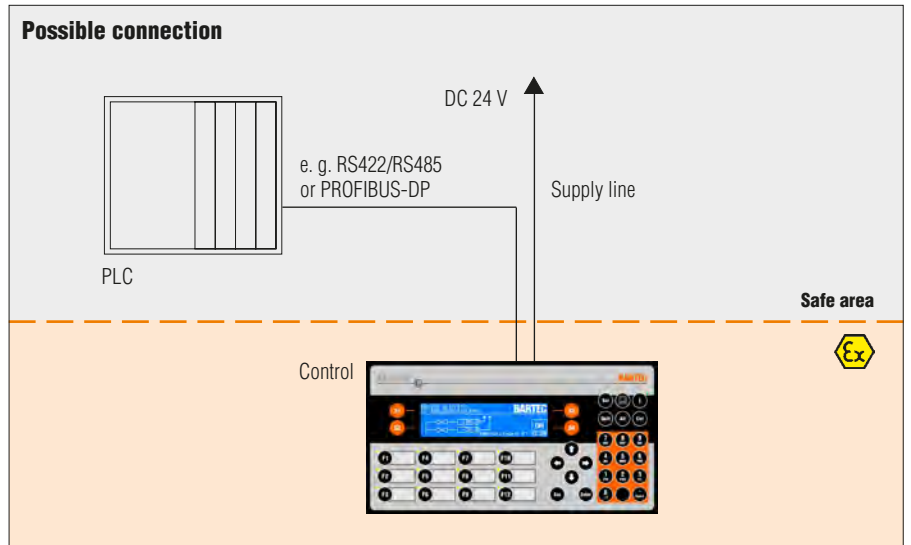
LED technology

#### Keyboard (short-stroke keys)

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

#### Interface (Basic version)

- 1 x Ex i USB for Ex i memory stick
- 1 x Ex e RS422/RS485



**Dimensions** (width x height x depth)  
290 mm x 151 mm x approx. 130 mm

**Wall cut-out**  
275 mm x 131 mm + 0.5 mm

**Weight**  
approx. 6 kg

**Power supply**  
DC 24 V ± 10 %

**Max. power consumption**  
 $P_{max} < 15 \text{ W}$

**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)  
Rear panel galvanised sheet steel bichromated

**Selection chart**

Version	Interfaces	Code no.
POLARIS Control	RS422/RS485	<b>0</b>
	PROFIBUS-DP*	<b>1</b>
	RS232	<b>2</b>
	TTY	<b>3</b>

\* Download only via USB Ex i-memory stick.

➔ **Complete order no. 17-71V0-000**

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