



## Local control stations for Zone 1 and Zone 21

### Features

- The right size/material enclosure
- Optimum functionality thanks to the great variety of components
- Customised planning and implementation
- Certified to many standards

### Description

For explosion-proof local controllers BARTEC offers an extensive range of polyester enclosures with screw fixing lid and hinged doors.

BARTEC local control stations are certified for use in hazardous areas with combustible gas or dust.

The enclosures must be produced in compliance with the requirements for the "Increased Safety" type of protection or "Protection by Enclosure".

Depending on the specification and number of equipment, various enclosure types and sizes are available. The control stations will be equipped according to your individual requirements with control units, alarm units, display units and bus interface modules.

Industrial serial products can also be fitted in the controllers for Zone 21 with the tD "Protection by Enclosure" type of protection.

The components are mounted either on DIN rails or installed on the front lid. Depending on the design and requirements, BARTEC not only

supplies control units but also offers the complete wiring to terminal blocks.

The supply range includes enclosures made of aluminium, polyester and stainless steel. These are fitted with certified modules and glands at points of penetration in the wall of the enclosure.

### Fields of application

Chemical and petrochemical industry, process and plant engineering, pharmaceutical and food industry, OFF SHORE areas.

Thanks to their great variety, the enclosure are particularly suited for local control stations and bus interface units.



➤ **Explosion protection**

**Ex protection type**

(depending on the components installed)

**for Zone 1**

⊕ II 2(1)G Ex demq ia/ib [ia] IIA, IIB, IIC T6, T5, T4

⊕ II 2G Ex demq ia/ib [ib] IIA, IIB, IIC T6, T5, T4

**for Zone 21**

⊕ II 2D Ex tD [ibD] A21 IP 6X T80 °C to T100 °C (at a distance of 5 K)

⊕ II 2(1)D Ex tD [iaD] A21 IP 6X T80 °C to T100 °C (at a distance of 5 K)

**Ambient temperature**

(special design on request)

-20 °C to +40 °C

-55 °C to +70 °C

**Certification**

PTB 02 ATEX 1159 for Zone 1

IBExU00ATEX1079 for Zone 21

IECEx PTB 10.0043

(Further certifications on request)

➤ **Technical data**

**Material**

**Type 07-3101 with lid**

aluminium  
ALSi 12, pressure or chill casting  
RAL 7001 silver grey

**Type 07-3103 with lid**

glass-fibre reinforced polyester  
RAL 9005, deep black

**Type 07-3109 mit door**

glass-fibre reinforced polyester  
RAL 9011, graphite black

**Type 07-3113 with door**

High-quality stainless steel 304

**Type 07-3132 with lid**

High-quality stainless steel 316L  
Enclosure with lid

**Type 07-3136 with door**

High-quality stainless steel 316L

**Seals**

**EPDM (Standard)**

-20 °C to +85 °C

**PU (Standard at 07-3109)**

-20 °C to +80 °C

**Silicone**

-55 °C to +100 °C

**Mechanical strength**

(acc. to DIN EN 60079-0: 2006)

Impact energy 7 Nm

**Protection class**

(higher degree of protection on request)

EN 60529/IEC 60529

max. IP 66

■ **Electrical data**

**Rated voltage**

up to 1000 V

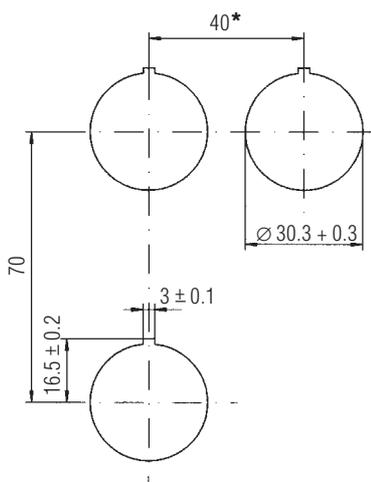
**Rated current**

max. 160 A depending on devices fitted

max. 125 A (for Zone 21)

**Mounting dimensions**

for switching and light elements according to EN 60947-5-1



\* Recommended distance for mushroom pushbutton, emergency switch as well as position selector with protective shroud: 100 mm (3.94 in).

**Configuration data for control stations**

**Type of enclosure**

07-31   -

**Dimensions**

Width \_\_\_\_\_ Height \_\_\_\_\_ Depth \_\_\_\_\_

**Nominal voltage**

AC \_\_\_\_\_ V / DC \_\_\_\_\_ V

**Threaded glands**

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