

Local control station

for Zone 2 and Zone 22



Description

BARTEC produces local control stations for use in areas with flammable gases and dusts. Depending on the application area, the control stations are designed with the type of protection “Increased safety” or “Protection by enclosure”.

The explosion-protected local control stations are available in aluminium, polyester or stainless steel. When selecting the version, you can choose between a cabinet with door and an enclosure with screw cover.

Control, signalling and display devices and remote I/O systems are installed according to customer specifications. The installation of industrial standard equipment in controls for Zone 22, type of protection t “Protection by enclosure” is possible.

Features

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

The control elements can also be mounted on a mounting rail or in the front wall. Free installation areas can be designated for the subsequent installation of BARTEC control and signalling devices, which are then sealed using blanking plugs.

All explosion-protected local control stations are supplied prewired on terminals.

Fields of application

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

Explosion protection

Maximum marking	Dependent on installed components. Please pay attention to the information on the marking plate.
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Marking ATEX

Type A7-31**-****/****

- Ⓜ II 3 G Ex db dc eb ec ia ib ic [ic] nR nC ma mb mc [pxb] [pyb] [pzc] op is [op is] op pr q 60079-30-1 [60079-30-1] IIA, IIB or IIC T6, T5, T4 or T3 Gc X
- Ⓜ II 3(2) G Ex db dc eb ec ia ib ic [ib Gb] ma mb mc nR nC op is [op is] op pr [pxb] [pyb] q 60079-30-1 [60079-30-1] IIA, IIB, IIC T6, T5, T4 or T3 Gc X
- Ⓜ II 3(1) G Ex db dc eb ec ia ib ic [ia Ga] ma mb mc nR nC op is [op is Ga] op pr q 60079-30-1 IIA, IIB, IIC T6, T5, T4 or T3 Gc X
- Ⓜ II 3 D Ex tb tc ia ib ic [ic] ma mb mc op is [op is] op pr [pxb] [pyb] [pzc] IIIA, IIB or IIC, T80 °C, T100 °C or T130 °C Dc X
- Ⓜ II 3(2) D Ex tb tc ia ib ic [ib Gb] ma mb mc op is [op is] op pr [pxb] [pyb] IIIA, IIB or IIC, T80 °C, T100 °C or T130 °C Dc X
- Ⓜ II 3(1) D Ex tb tc ia ib ic [ia Ga] ma mb mc op is [op is] op pr IIIA, IIB or IIC, T80 °C, T100 °C or T130 °C Dc X

Type A7 -3S**-****/****

- Ⓜ II 3 D Ex tb tc ia ib ic [ic] ma mb mc op is [op is] op pr [pxb] [pyb] [pzc] IIIA, IIB or IIC, T80 °C, T100 °C or T130 °C Dc X
- Ⓜ II 3(2) D Ex tb tc ia ib ic [ib Gb] ma mb mc op is [op is] op pr [pxb] [pyb] IIIA, IIB or IIC, T80 °C, T100 °C or T130 °C Dc X
- Ⓜ II 3(1) D Ex tb tc ia ib ic [ia Ga] ma mb mc op is [op is] op pr IIIA, IIB or IIC, T80 °C, T100 °C or T130 °C Dc X

Type A7 -3n**-****/****

- Ⓜ II 3 G Ex ec nR [ic] [op is] IIA, IIB or IIC T6, T5, T4 or T3 Gc
- Ⓜ II 3(2) G Ex ec nR [ib Gb] [op is] IIA, IIB or IIC T6, T5, T4 or T3 Gc X
- Ⓜ II 3(1) G Ex ec nR [ia Ga] [op is] IIA, IIB or IIC T6, T5, T4 or T3 Gc X

Certificate	IBExU 14 ATEX B002X
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Marking IECEx

Type A7-31**-****/****

- Ex db dc eb ec ia ib ic [ic] nR nC ma mb mc [pxb] [pyb] [pzc] op is [op is] op pr q 60079-30-1 [60079-30-1] IIA, IIB or IIC T6, T5, T4 or T3 Gc
- Ex db dc eb ec ia ib ic [ib Gb] ma mb mc nR nC op is [op is] op pr [pxb] [pyb] q 60079-30-1 [60079-30-1] IIA, IIB, IIC T6,T5, T4 or T3 Gc
- Ex db dc eb ec ia ib ic [ia Ga] ma mb mc nR nC op is [op is Ga] op pr q 60079-30-1 IIA, IIB, IIC T6, T5, T4 or T3 Gc

Type A7 -3S**-****/****

- Ex tb tc ia ib ic [ic] ma mb mc op is [op is] op pr [pxb] [pyb] [pzc] IIIA, IIB or IIC, T80 °C, T100 °C or T130 °C Dc
- Ex tb tc ia ib ic [ib Gb] ma mb mc op is [op is] op pr [pxb] [pyb] IIIA, IIB or IIC, T80 °C, T100 °C or T130 °C Dc
- Ex tb tc ia ib ic [ia Ga] ma mb mc op is [op is] op pr IIIA, IIB or IIC, T80 °C, T100 °C or T130 °C Dc

Type A7 -3n**-****/****

- Ex ec nR [ic] [op is] IIA, IIB or IIC T6, T5, T4 or T3 Gc
- Ex ec nR [ib Gb] [op is] IIA, IIB or IIC T6, T5, T4 or T3 Gc
- Ex ec nR [ia Ga] [op is] IIA, IIB or IIC T6, T5, T4 or T3 Gc

Certificate	IECEx IBE 14.0028X
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Ambient temperature	Dependent on installed components. Please pay attention to the information on the marking plate. -60 °C to max. +80 °C (-67 °F to max. +176 °F)
Approved for zones	2 and 22
Other certification	CSA 70010169
Components	The installation instructions and safety instructions of the component manufacturer must be observed.
Co-applicable documents	- Circuit diagram - Mounting instructions / Instruction manual of the enclosure and of the installed components - Delivery note
Type of protection	Max. IP 66 (EN 60529)
Mechanical strength	Impact energy: max. 7 J

For further informations and certificates, see www.bartec.com

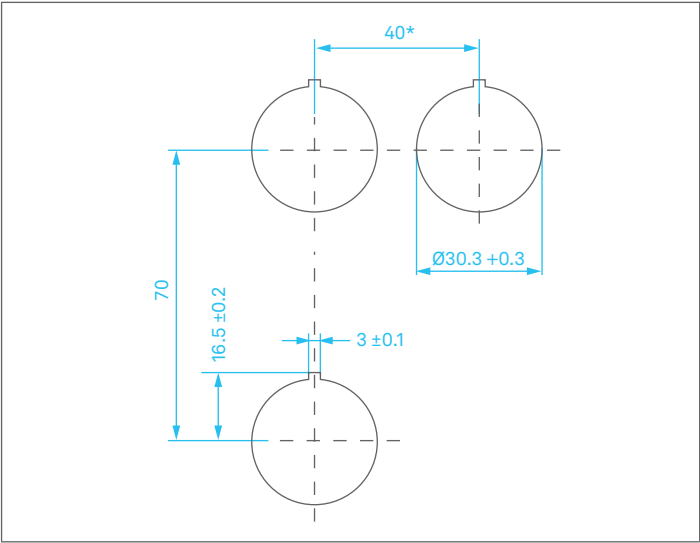
Electrical data

Rated voltage	up to 1000 V
Rated current for components installed	max. 690 A
Rated cross section	up to max. 400 mm²

Local measuring, control and switchgear combinations that are intended exclusively for use in areas with inflammable types of dust have the following deviating markings:
Type A7-3S..-.... /

Control combinations that are built exclusively with type of protection Ex nR are marked as follows:
Type A7-3n**-****/****

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.

Enclosure type / material

** more Enclosures available on request

