BARTEC

Local control station

for Zone 1 and Zone 21

Measuring Control & Switchgear Combination

Local control stations are designed for hazardous areas using increased safety enclosures. They come in different materials like aluminum, polyester, or stainless steel, with options of cabinets with doors or enclosures with screw covers.

Application:

Control stations are suited for use for:
- On-off control of circuits
- Indication of equipment status and performance in hazardous area
- Motor control

Typically used

in installation at petroleum refineries, chemical and petrochemical plants and other process industry facilities where similar hazards exist

Features
- Tailored solutions, use of right size/ material enclosure
- Optimum functionality thanks to the great variety of components
- Customised planning and implementation
- Certified to many standards

Description

BARTEC Local control stations are suited for 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, signaling and display devices and remote I/O systems are installed according to customer specifications. The installation of industrial standard equipment and controls for Zone 21, type of protection tb “Protection by enclosure” is possible. 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. Explosion-protected local control stations can be supplied prewired on terminals.

Fields of application

Possible use in all environments where there is a risk of explosion or increased safety is needed.

Technical data

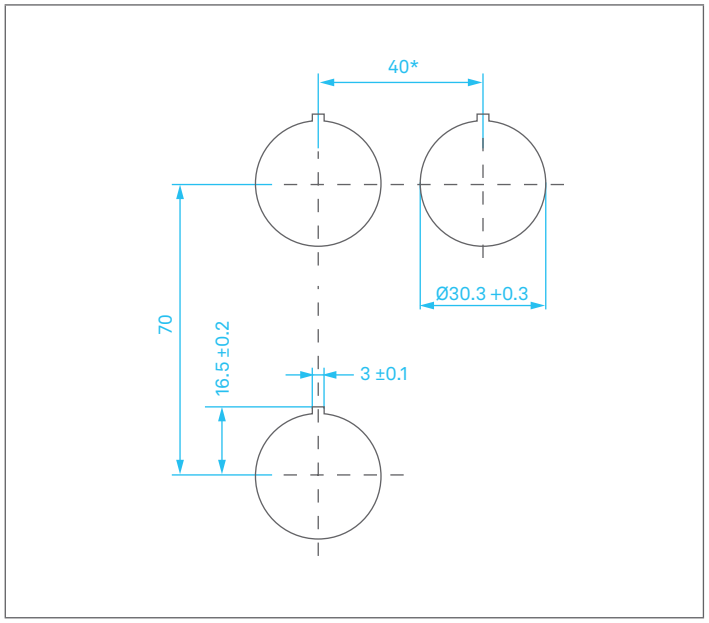
Material	Aluminium, glass-fibre reinforced polyester, stainless steel

Electrical data

Rated voltage	up to 1000 V
Rated curent	max. 690 A
Rated cross section	max. 400 mm²

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.

Explosion protection

Marking ATEX	Type 07-31**-****/****
	Ⓔx II 2 G Ex db eb ia ib [ib] ma mb op is [op is] op pr [pxb] [pyb] q 60079-30-1 [60079-30-1] IIA, IIB, IIC T6, T5, T4 or T3 Gb
	Ⓔx II 2(1)G Ex db eb ia ib [ia Ga] ma mb op is [op is] op pr [pxb] [pyb] q 60079-30-1 [60079-30-1] IIA, IIB or IIC T6, T5, T4, or T3 Gb
	Ⓔx II 2 D Ex tb ia ib [ib] ma mb op is [op is] op pr [pxb] [pyb] IIIA, IIIB or IIIC, T80 °C, T95 °C, or T130 °C Db
	Ⓔx II 2(1)D Ex tb ia ib [ia Da] ma mb op is [op is] op pr [pxb] [pyb] IIIA, IIIB or IIIC, T80 °C, T95 °C or T130 °C Db
	Type 07-3S**-****/****
	Ⓔx II 2D Ex tb ia ib [ib] ma mb op is [op is] op pr [pxb] [pyb] IIIA, IIIB or IIIC, T80 °C, T95 °C, or T130 °C Db
	Ⓔx II 2(1)D Ex tb ia ib [ia Da] ma mb op is [op is] op pr [pxb] [pyb] IIIA, IIIB or IIIC, T80 °C, T95 °C or T130 °C Db
Marking IECEx	Type 07-31**-****/****
	Ex db eb ia ib [ib] ma mb op is [op is] op pr [pxb] [pyb] q 60079-30-1 [60079-30-1] IIA, IIB, or IIC T6, T5, T4, or T3 Gb
	Ex db eb ia ib [ia Ga] ma mb op is [op is] op pr [pxb] [pyb] q 60079-30-1 [60079-30-1] IIA, IIB, or IIC T6, T5, T4, or T3 Gb
	Ex tb ia ib [ib] ma mb op is [op is] op pr [pxb] [pyb] IIIA, IIIB, or IIIC, T80 °C, T95 °C, or T130 °C Db
	Ex tb ia ib [ia Da] ma mb op is [op is] op pr [pxb] [pyb] IIIA, IIIB, or IIIC, T80 °C, T95 °C, or T130 °C Db
	Typ 07-3S**-****/****
	Ex tb ia ib [ib] ma mb op is [op is] op pr [pxb] [pyb] IIIA, IIIB, or IIIC, T80 °C, T95 °C, or T130 °C Db
	Ex tb ia ib [ia Da] ma mb op is [op is] op pr [pxb] [pyb] IIIA, IIIB, or IIIC, T80 °C, T95 °C, or T130 °C Db
Certification	IBExU 12 ATEX 1099X
	IECEx IBE 12.0031X
	CSA: 2515401
	NEPSI: GYJ20.1064
	CCC: 2020322304001711
	INMETRO: UL-BR 11.0118
	PESO: A/P/HQ/UP/104/5577 (P470774)
	ECASEx: 23-06-75816/E23-05-076028/NB000
Ambient temperature	Dependent on installed components. Please pay attention to the information on the marking plate. -60 °C to max. +80 °C (-76 °F to max. +176 °F)
Temperature Classes	T6, T5, T4, T3 T80 °C, T95 °C, T130 °C

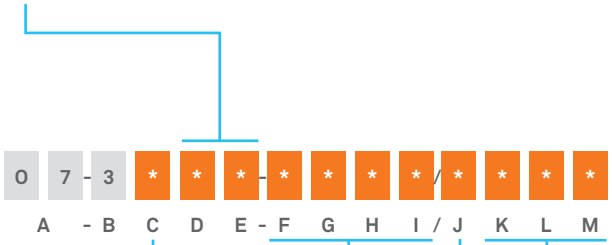
For further information and certificates, see www.bartec.com

Configuration data for control stations

Enclosure type / material

DE	Type	Enclosure type	Ex protection	Material	Max. operating temperature
03	Empty enclosure	ESP, 07-5185	Ex e	Polyester black	Silicone -55 °C to +100 °C EPDM -35 °C to +90 °C
05		ESP, 07-5185	Ex i		
06		ESP, 07-5184	Ex e	Polyester grey	
07		ESP, 07-5184	Ex i		
90	Empty enclosure with lid	GWR	Ex e	Polyester, black	-50 °C to +100 °C
91	Empty enclosure with lid	ESA	Ex e	Aluminum	-60 °C to +180 °C (+160 °C with ceramic terminals)
30	Empty enclosure with flange and cover	ESI, 07-56A1	Ex e	Stainless steel 304 - V2 A	Silicone: -40 °C to +100 °C EPDM: -20 °C to +100 °C RAKU PUR: -40 °C to +80 °C
31		ESI, 07-56A1	Ex i		
32	Empty enclosure with flange and cover	ESI, 07-56B1	Ex e	Stainless steel 316L – V4 A	
33		ESI, 07-56B1	Ex i		
34	Empty enclosure with flange and hinged door	ESI, 07-56C1	Ex e	Stainless steel 304 - V2 A	
35		ESI, 07-56C1	Ex i		
36	Empty enclosure with flange and hinged door	ESI, 07-56D1	Ex e	Stainless steel 316L – V4 A	
37		ESI, 07-56D1	Ex i		
92	Empty enclosure with flange and cover	TNCN	Ex e	Stainless steel 316L – V4 A	Silicone: -50 °C to +200 °C
93		TNCN	Ex i	Stainless steel 316L – V4 A	
94	Empty cabinet with flange and hinged door	TNCN	Ex e	Stainless steel 316L – V4 A	
95		TNCN	Ex i	Stainless steel 316L – V4 A	
98	Empty enclosure with cover	ESX	Ex e	Stainless steel 316L – V4 A	-60 °C to +180 °C (+160 °C with ceramic terminals)
99	Empty enclosure with hinged door	ESX	Ex e	Stainless steel 316L – V4 A	

** more Enclosures available on request



Character	Character for:	Variant:	Description
C	Design	1	Local control station & Distribution panel for gas and dust (zone 1/21)
		S	Local control station & Distribution panel for dust only (zone 21)
		T	Terminal / Junction box
FGHI	Enclosure size code		Size code defined during engineerin
J	Country identification	A, B, C, ...	Production location identification code
KLM	Sequence number starting with 001		