Control Stations
BZC Series Explosion-proof Control Stations (Ex db IIB+H_2)

- Explosion protection to
  -CENELEC
  -IEC
  -NEC
- Can be used in
  Zone 1 and Zone 2
  Zone 21 and Zone 22
  Class I, Zone 1 and Zone 2
  Class I, Division 1, Groups B, C, D
- Copper-free Aluminium Alloy enclosure, powder coated surface.
- Six types of enclosure.
- Features excellent dustproof, waterproof, and corrosion-resistant properties, making it adaptable to various harsh working environments.
- The layout of buttons, switches, and other components on the control station is rational and straightforward, ensuring ease of use and quick mastery.
- A range of control methods can be selected based on actual needs, such as manual control, automatic control, or remote control, catering to varying application scenarios.

Catalogue number logic

BZC - A □ B □ D □ K □

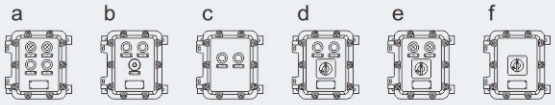
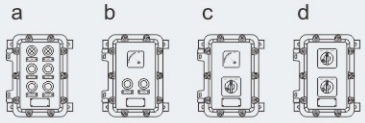
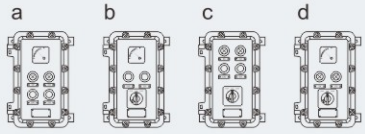
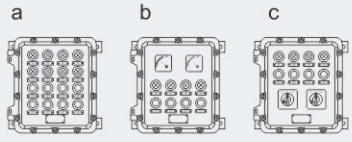
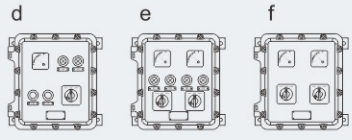
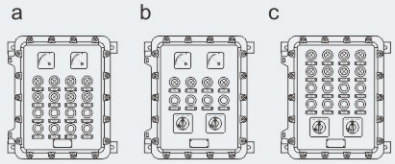
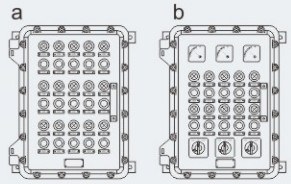
- Number of control switch
- Control switch (optional)
- Number of indicator
- Indicator (optional)
- Number of ammeter/voltmeter
- Ammeter/Voltmeter (optional)
- Number of push button
- push button (optional)
- Explosion-proof control stations

Note

1. Please refer to the Selection table on P4/7.
2. Please select internal components as below:
   Selection table of HA push button on P4/10~13 (Nominal contact is 1NO+1NC);
   Selection table of HD indicator on P4/14~15;
   Selection table of HK control switch on P4/16~19;
   Selection table of BB8050 explosion-proof ammeter/voltmeter on P4/49~51;
3. Example: BZC-A2B1K1
   Components: Two push buttons, one ammeter, one control switch;
   Tech. Details: One start push button (40036B + 40023 + 40024, green, 1NO+1NC);
   One stop push button (40036A + 40023 + 40024, red, 1NO+1NC);
   One ammeter (40126, 100/5A);
   One control switch (Function A, stop-run-start);
4. Special requirements on request.

Zones 1&2; 21&22

Selection table of control station BZC (Ex db IIB+H2)

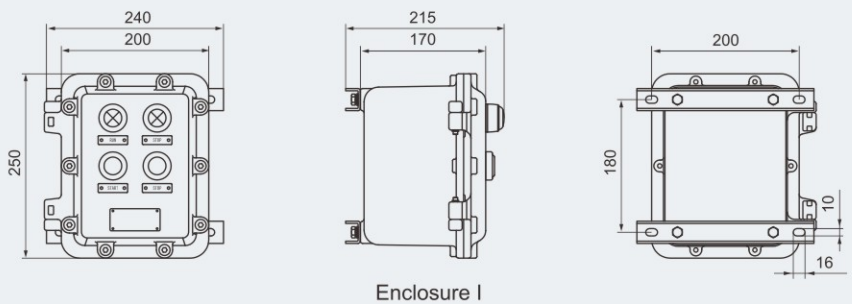
Enclosure type	Components arrangement	Cable entries and direction	Ordering code	Enclosure weight (kg)
I		2-M25×1.5 Bottom entry	40017.....	8.00
II		1-M32×1.5 or 2-M25×1.5 Bottom entry	40018.....	9.10
III		1-M32×1.5 or 3-M25×1.5 Bottom entry	40019.....	10.20
IV	 	1-M40×1.5 or 2-M32×1.5 or 4-M25×1.5 Bottom entry	40020.....	15.90
V		1-M40×1.5 or 4-M32×1.5 or 6-M25×1.5 Bottom entry	40021.....	27.50
VI		1-M40×1.5 or 4-M32×1.5 or 6-M25×1.5 Bottom entry	40022.....	40.00

Technical data

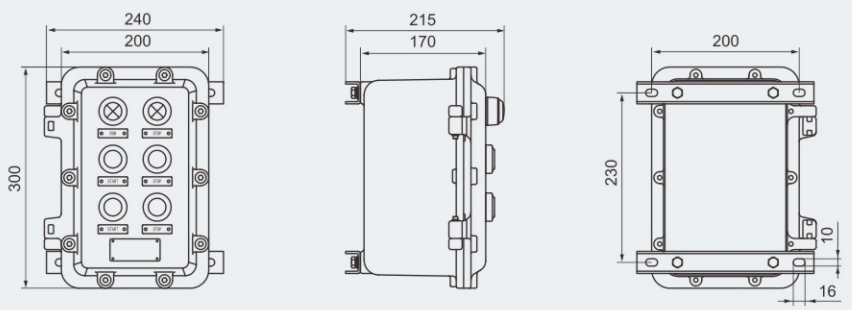
Explosion-proof control stations BZC (Ex db IIB+H_2)

Explosion protection	
Global (IECEx)	IECEx CQM 11.0043
Gas and dust	Ex db IIB+H_2 T6 Gb
	Ex tb IIIC T80˚C Db IP66
Europe (ATEX)	TÜV CY 17 ATEX 0205967X
Gas and dust	Ⓔx II 2 G Ex db IIB+H_2 T6 Gb
	Ⓔx II 2 D Ex tb IIIC T80˚C Db IP66
Certificates	IECEx; ATEX
Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-31
	IEC 60079-0, IEC 60079-1, IEC 60079-31
Enclosure material	Copper-free Aluminium Alloy, powder coated surface
Enclosure colour	Window grey (RAL7040)
Exposed fastener	Stainless steel
Rated voltage	Max. 415V AC
Max. current	10A
Degree of protection	IP66
Internal&external earthing	I, II, III: M6/M6; IV, V, VI : M6/M8;
Ambient temperature	-60˚C~+55˚C
Components	1. Technical data of HA push button on P4/10~13;
	2. Technical data of HD indicator on P4/14~15;
	3. Technical data of HK control switch on P4/16~19;
	4. Technical data of BB8050 explosion-proof ammeter/voltmeter on P4/49~51;
Cable entries	Standard M□×1.5 plug. Please see the Selection table on P4/7
Cable gland (optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P6/24~39.
Mounting	Surface type

Dimension drawings (all dimensions in mm) - subject to alteration

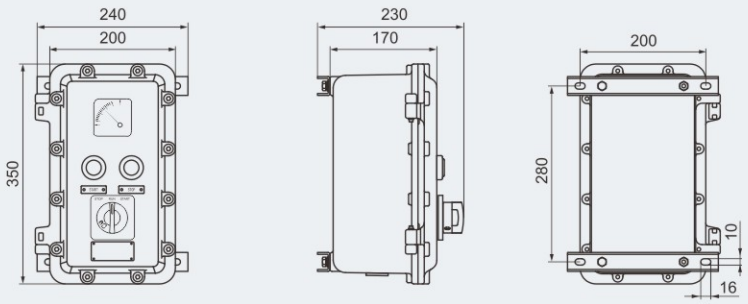


Enclosure I

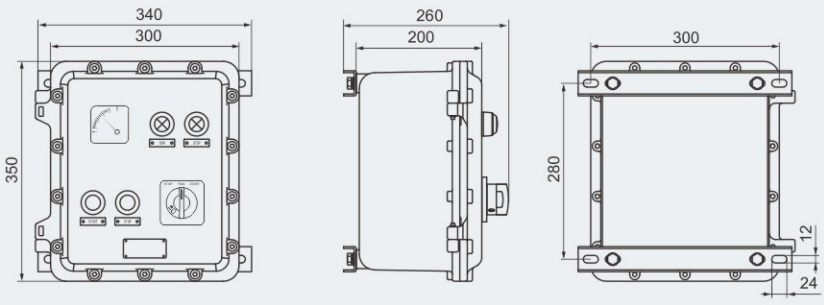


Enclosure II

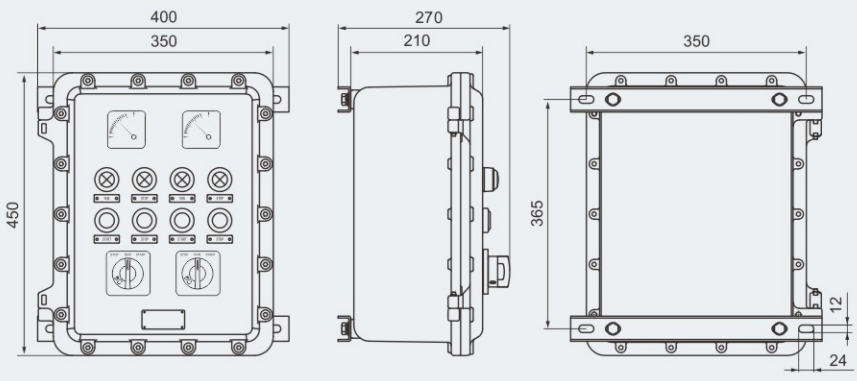
Dimension drawings (all dimensions in mm) - subject to alteration



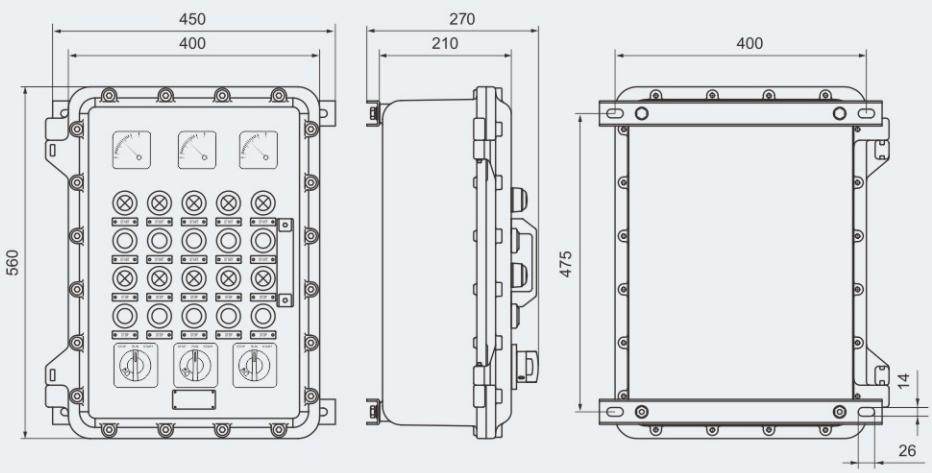
Enclosure III



Enclosure IV



Enclosure V



Enclosure VI