

Control Stations

BZC Series Explosion-proof Control Stations (Ex db IIB+H₂)



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.

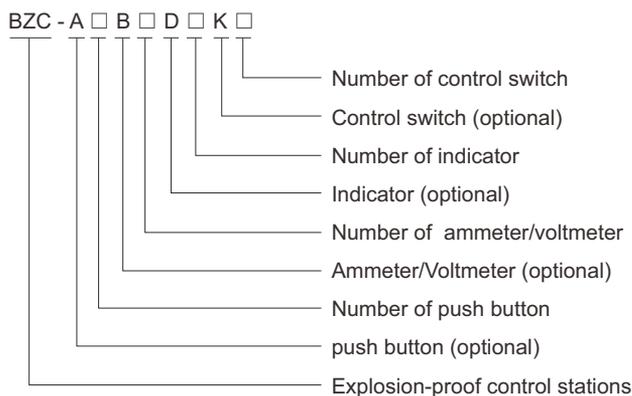
Six types of enclosure .

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



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 P4/51~53;
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



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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 x 1.5 Bottom entry	40017.....	8.00
II		1-M32 x 1.5 or 2-M25 x 1.5 Bottom entry	40018.....	9.10
III		1-M32 x 1.5 or 3-M25 x 1.5 Bottom entry	40019.....	10.20
IV		1-M40 x 1.5 or 2-M32 x 1.5 or 4-M25 x 1.5 Bottom entry	40020.....	15.90
V		1-M40 x 1.5 or 4-M32 x 1.5 or 6-M25 x 1.5 Bottom entry	40021.....	27.50
VI		1-M40 x 1.5 or 4-M32 x 1.5 or 6-M25 x 1.5 Bottom entry	40022.....	40.00



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Technical data

Explosion-proof control stations

BZC (Ex db IIB+H₂)

Explosion protection

Global (IECEX)

IECEX CQM 11.0043

Gas and dust

Ex db IIB+H₂ T6 Gb

Ex tb IIIC T80 Db IP66

Europe (ATEX)

TÜV CY 17 ATEX 0205967X

Gas and dust

⊕ II 2 G Ex db IIB+H₂ T6 Gb

⊕ II 2 D Ex tb IIIC T80 Db IP66

Certificates

IECEX; ATEX; CU-TR

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 ~+55

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 P4/51~53;

Cable entries

Standard M□ x 1.5 plug. Please see the Selection table on P4/7

Cable gland (optional)

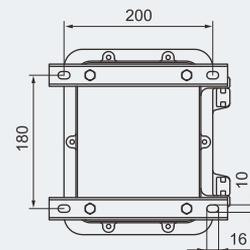
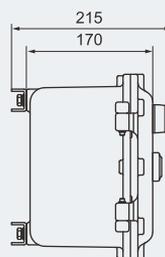
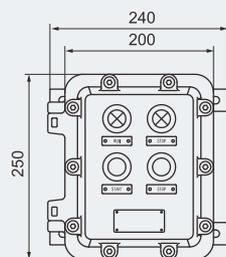
DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/22~31.

Mounting

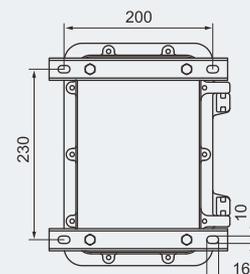
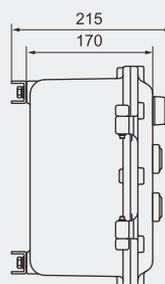
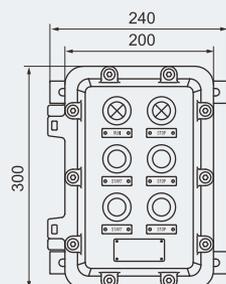
Surface type



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



Enclosure I

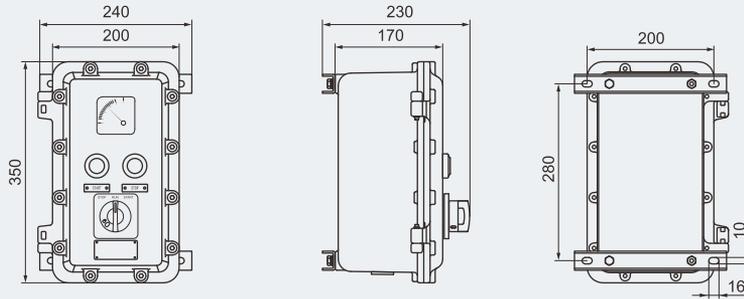


Enclosure II

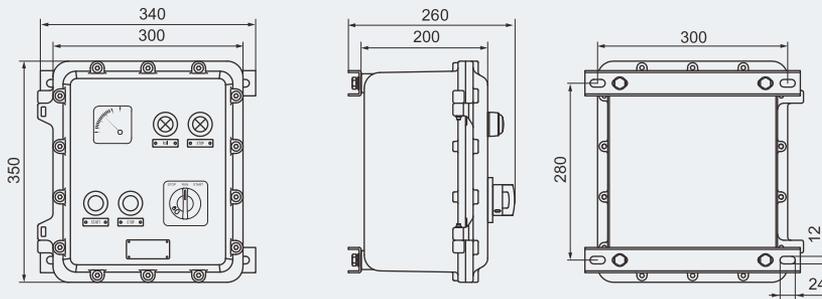
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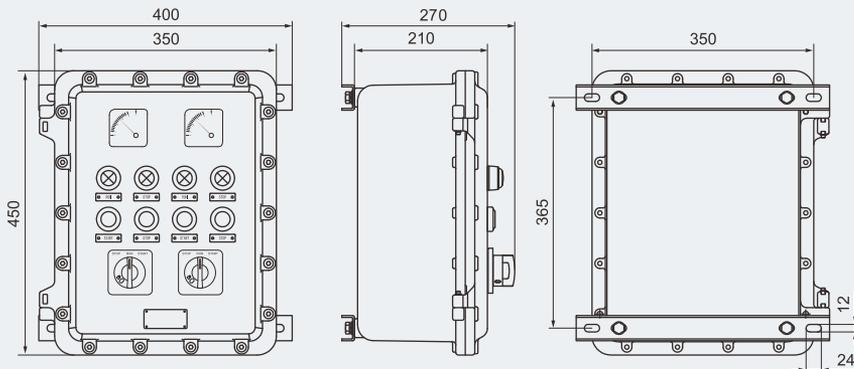
Dimension drawings (all dimensions in mm) - subject to alteration



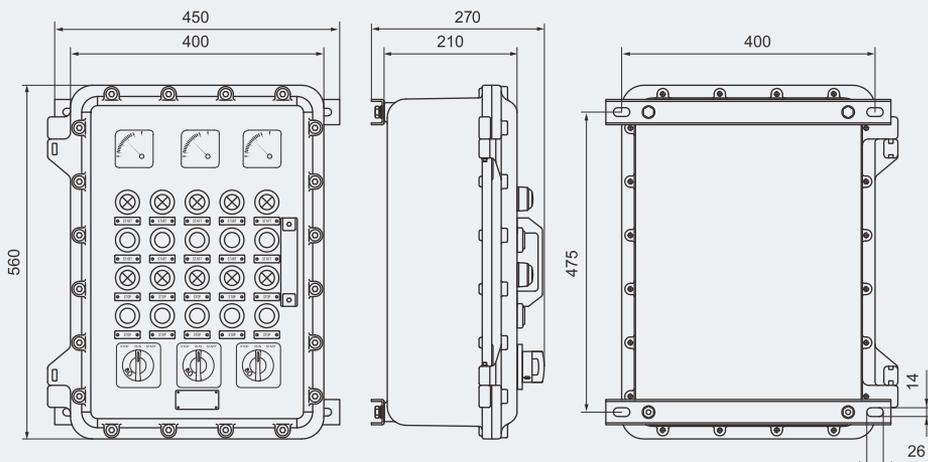
Enclosure III



Enclosure IV



Enclosure V



Enclosure VI

