

# HEXLON

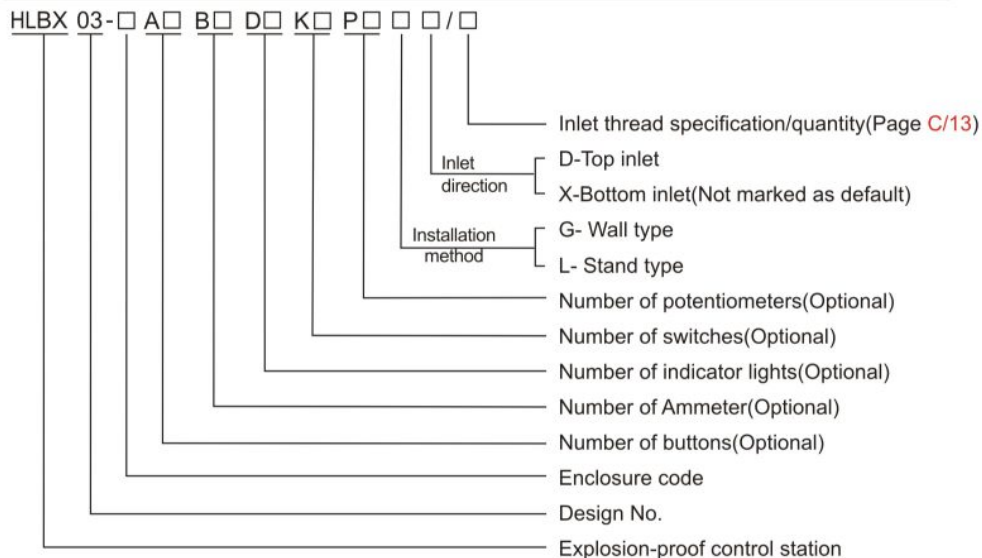
## HLBX03- Series Explosion-proof Control Station

### 1 Application and Features

- Explosion protection
  - IECEEx (IEC)
  - ATEX (CENELEC, EN)
  - China Ex(GB)
- Application in hazardous area
  - Zone 1 and Zone 2,
  - Zone 21 and Zone 22
- There are 5 types of enclosures, assembled with explosion-proof components (control buttons, switches, indicator lights, potentiometers, ammeters, etc.) and terminal blocks. The components are rail-type structure, which can be quickly installed and convenient for installation and maintenance.
- The emergency stop button can be equipped with anti-misoperation mechanism and padlock by requirements.
- Stainless steel exposed fasteners, anti-drop structure, convenient for installation and maintenance.

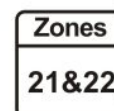
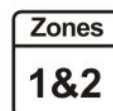


### 2 Nomenclature



#### Note:

1. Example: HLBX03-19A2B1GXM25X1.5, 19# enclosure, which with two control buttons, one ammeter; wall mounting type, one bottom inlet M25X1.5;
2. The specific requirements of the components are based on the drawings;
3. Button code, switch code, signal lamp code, ammeter code see P B/94;
4. The rain shade is customizable by requirements.



### 3 Technical Parameter

|                         |            |                                                                                                                                                          |                    |                     |
|-------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|
| Ex marking              | Gas        | Ex II2 G Ex db eb IIC T6 Gb                                                                                                                              | Ex db eb IIC T6 Gb | Ex d e IIC T6 Gb    |
|                         | Dust       | Ex II2 D Ex tb IIIC T80℃ Db                                                                                                                              | Ex tb IIIC T80℃ Db | Ex tD A21 IP66 T80℃ |
| Conformity to standards |            | IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31<br>EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31<br>GB3836.1,GB3836.2,GB3836.3,GB12476.1,GB12476.5 |                    |                     |
| Enclosure materials     | Enclosure  | GRP (Polyester resin, glass fibre reinforced), antistatic                                                                                                |                    |                     |
|                         | Rain shade | Bended steel plate surface powder coated, industrial grey with dark lines texture (RAL7035) or stainless steel 304/316, please note when needed.         |                    |                     |
| Color of enclosure      |            | Black                                                                                                                                                    |                    |                     |
| Exposed fasteners       |            | Stainless steel exposed fasteners, anti-drop structure                                                                                                   |                    |                     |
| Rated voltage           |            | Maximum 415VAC, 250V DC                                                                                                                                  |                    |                     |
| Rated current           |            | 6A、10A、16A                                                                                                                                               |                    |                     |
| Wire diameter           |            | ≤6A: 0.75~2.5mm <sup>2</sup>                                                                                                                             |                    |                     |
|                         |            | 6A<I≤10A: 1.5~2.5mm <sup>2</sup>                                                                                                                         |                    |                     |
|                         |            | 10A<I≤16A: 2.5mm <sup>2</sup>                                                                                                                            |                    |                     |
| Degree of protection    |            | IP66                                                                                                                                                     |                    |                     |
| Ambient temperature     |            | -40℃~+40/45/50/55/60/65/70℃                                                                                                                              |                    |                     |
| Components              |            | HL0101 explosion-proof control button, refer to P B/122 for technical parameters                                                                         |                    |                     |
|                         |            | HL0102 explosion-proof indicator, refer to P B/130 for technical parameters                                                                              |                    |                     |
|                         |            | HL0101-S explosion-proof control switch, refer to P B/126 for technical parameters                                                                       |                    |                     |
|                         |            | HL0109 explosion-proof ammeter, refer to P B/120 for technical parameters                                                                                |                    |                     |
| Installation method     |            | Wall type and stand type                                                                                                                                 |                    |                     |
| Cable entries           | Wall type  | M16X1.5~M63X1.5, G1/2~G2<br>Without cable entry device as default, please note if which is needed.                                                       |                    |                     |
|                         | Stand type | G1 only                                                                                                                                                  |                    |                     |

### 4 Components and accessories



HL0101- Control button



HL0101-A2 Double button



HL0102- Signal lamp



HL0101-A Illuminated control buttons



HL0109- Ammeter



HL0153 Switch



φ38 operating handle

φ65 operating handle  
(with padlock available)

Square operating handle

#### Note:

1. HL0109-48 occupies 2 components position;
2. φ65 and square operating handle occupies 2 components position;
3. HL0153 switch, HL0109-72 occupies 2~3 components position.

### 5 Selection Table (Dimensions in mm)

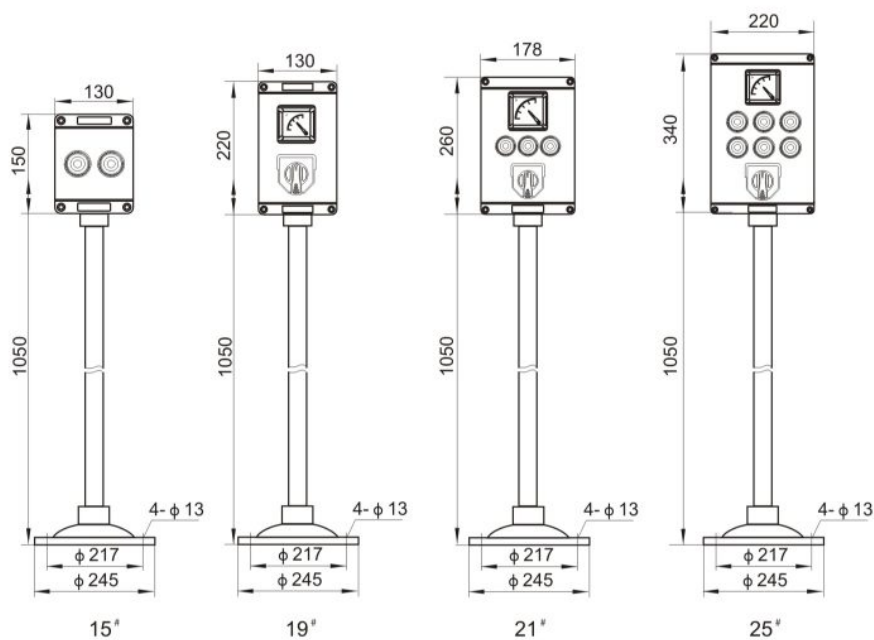
| Outline        | Component layout                                                                                 |
|----------------|--------------------------------------------------------------------------------------------------|
| <b>15#</b><br> | <br>1501    1502    1503    1504    1505    1506    1507                                         |
| <b>19#</b><br> | <br>1901    1902    1903    1904    1905    1906<br>1907    1908    1909    1910    1911    1912 |
| <b>21#</b><br> | <br>2101    2102    2103    2104    2105    2106                                                 |
| <b>25#</b><br> | <br>2501    2502    2503    2504    2505    2506                                                 |
| <b>29#</b><br> | <br>2901    2902    2903    2904                                                                 |

## HLBX03- Series Explosion-proof Control Station

## 6 Height of electrical accessories

| Electrical accessories | Frame of ammeter | Standard button | Double Button | Button with key | Self-lock button | Mushroom button | Mushroom button with key | Indicator light | illuminated button | Control switch S1, S3 | Control switch S2 | potentiometer (single turn) | potentiometer multi turn) |
|------------------------|------------------|-----------------|---------------|-----------------|------------------|-----------------|--------------------------|-----------------|--------------------|-----------------------|-------------------|-----------------------------|---------------------------|
| h(mm)                  | 11               | 20.5            | 21.5          | 38(62)          | 40               | 32              | 45(69)                   | 23.5            | 20.5               | 40                    | 42                | 27                          | 40.5                      |

## 7 Outline and Installation Dimension (stand type) (Dimensions in mm)



## 8 Accessories list

| Item                       | Picture | Purchase code  | Weight (kg) |
|----------------------------|---------|----------------|-------------|
| Stand type connection part |         | 1.01.901.00007 | 0.3         |
| Pole                       |         | 1.01.901.00006 | 3.4         |
| Basis                      |         | 1.01.901.00005 | 0.6         |