

# HEXLON

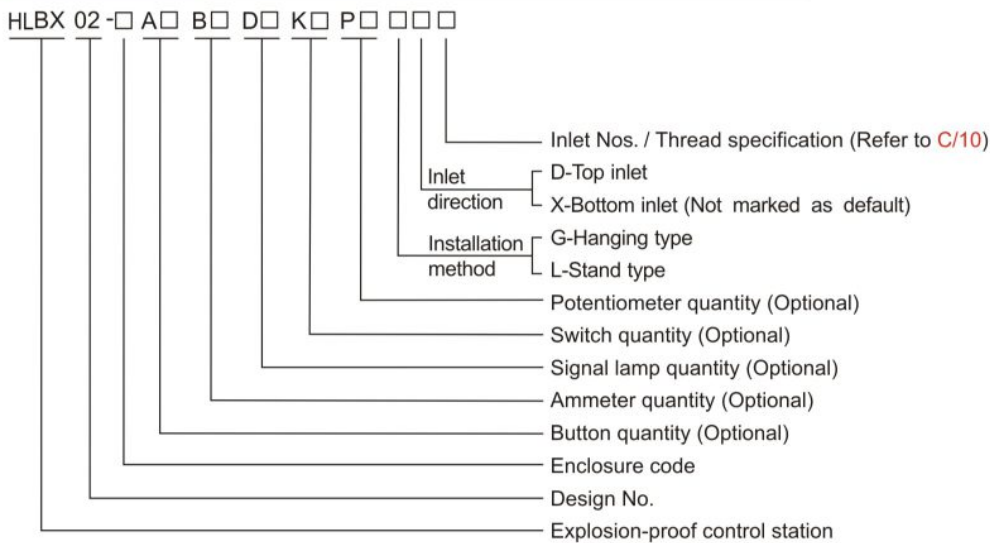
## HLBX02-Series Explosion-proof Control Station

### 1 Application and Features

- Explosion protection
  - IECEx (IEC)
  - ATEX (CENELEC, EN)
  - China Ex(GB)
- Application in hazardous area
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
- Seven type enclosure sizes, built-in explosion-proof components (control button, control switch, signal lamp, potentiometer, ammeter, etc.) and terminal blocks. The components is rail mounting type, which can be installed on the guide rail quickly and accurately, easy for installation and maintenance.
- Emergency stop button can be equipped with anti misoperation mechanism and padlock (If need).
- Stainless steel exposed fastener, anti dropping structure, easy for installation and maintenance.

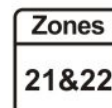
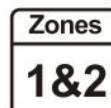


### 2 Nomenclature



#### Note:

1. Model example: HLBX02-07A2D2GM25X1.5, 07# enclosure, equipped with two control buttons and two signal lamps; Hanging mounting, one bottom inlet M25x1.5;
2. Specific components plan description refers to the requirements of the drawings;
3. Button code, switch code, signal lamp code, ammeter code see P B/94.
4. Rain shade can be customized upon request.



### 3 Technical Parameter

|                         |              |                                                                                                                                                              |                    |                      |
|-------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------|
| Ex marking              | Gas          | ⊕ IIC G Ex db eb IIC T6 Gb                                                                                                                                   | Ex db eb IIC T6 Gb | Ex de IIC T6 Gb      |
|                         | Dust         | ⊕ IIC D Ex tb IIC T80°C Db                                                                                                                                   | Ex tb IIC T80°C Db | Ex tD A21 IP66 T80°C |
| 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 material      | Enclosure    | Stainless steel (Standard 304, if 316 is needed, please indicate)                                                                                            |                    |                      |
|                         | Rain shade   | Bended steel plate surface powder coated, industrial grey with dark lines texture (RAL7035) or stainless steel 304/316, please note when needed.             |                    |                      |
| Exposed fastener        |              | Stainless steel, anti-drop structure.                                                                                                                        |                    |                      |
| Rated voltage           |              | Max. 415V AC, 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°C ~ +40/45/50/55/60/65/70°C                                                                                                                              |                    |                      |
| Built-in components     |              | HL0101 explosion-proof control button, See P B/122 for technical parameters                                                                                  |                    |                      |
|                         |              | HL0102 explosion-proof signal lamp, See P B/130 for technical parameters                                                                                     |                    |                      |
|                         |              | HL0101-S explosion-proof control switch, See P B/126 for technical parameters                                                                                |                    |                      |
|                         |              | HL0109 explosion-proof ammeter, See P B/120 for technical parameters                                                                                         |                    |                      |
| Installation method     |              | Hanging type, stand type                                                                                                                                     |                    |                      |
| Cable entries           | Hanging type | M16×1.5~M63×1.5<br>The cable gland is not available when delivery, please indicate if necessary.                                                             |                    |                      |
|                         | Stand type   | Only for G1 thread                                                                                                                                           |                    |                      |

### 4 Components and Accessories



HL0101-Control button



HL0101-A2 Two control button



HL0102-Signal lamp



HL0101-A Control button with signal lamp



HL0109-Ammeter



HL0153 Switch



φ 38 Operating handle

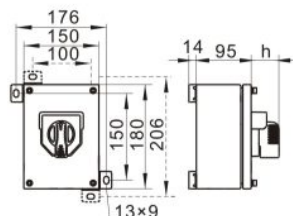
φ 65  
Operating handle  
(padlock available)

Square operating handle

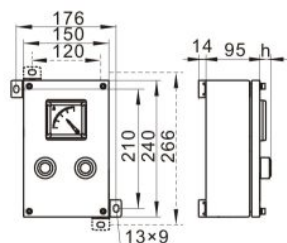
**Note:** 1. Installation area of 1 pcs HL0109-48 is same as 2 pcs buttons;  
2. Installation area of 1 pcs φ 65 operating handle or 1 pcs square operating handle is same as 2 pcs buttons;  
3. Installation area of 1 pcs HL0153 switch or 1 pcs HL0109-72 is same as 2~3 buttons.

### 5 Selection Table

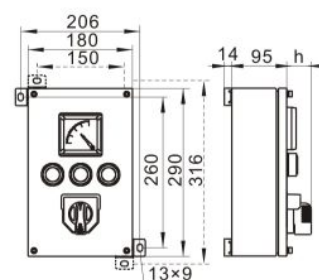
| Code  | Component layout |   |   |   |   |   |   |   |   |
|-------|------------------|---|---|---|---|---|---|---|---|
| 03    | a                | b | c | d | e | f | g | h |   |
|       |                  |   |   |   |   |   |   |   |   |
| 07    | a                | b | c | d | e | f | g | h |   |
|       |                  |   |   |   |   |   |   |   |   |
| 11    | a                | b | c | d | e | f | g | h | j |
|       |                  |   |   |   |   |   |   |   |   |
| 15    | a                | b | c | d |   |   |   |   |   |
|       |                  |   |   |   |   |   |   |   |   |
| 19    | a                | b | c |   |   |   |   |   |   |
|       |                  |   |   |   |   |   |   |   |   |
| 21/25 | a                | b | c | d |   |   |   |   |   |
|       |                  |   |   |   |   |   |   |   |   |

**6 Outline and Installation Dimension (Dimensions in mm)**

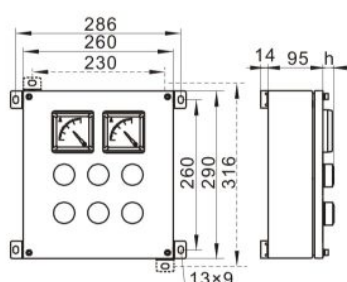
Enclosure 03



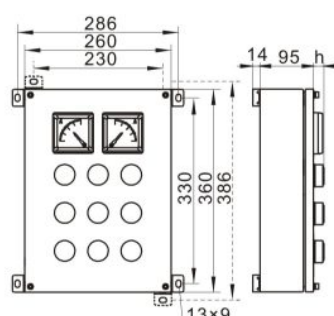
Enclosure 07



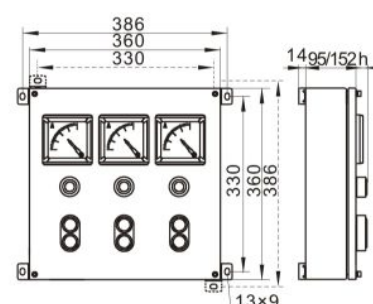
Enclosure 11



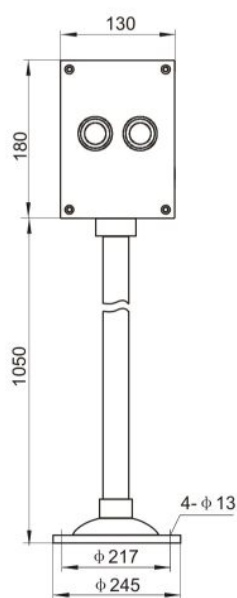
Enclosure 15



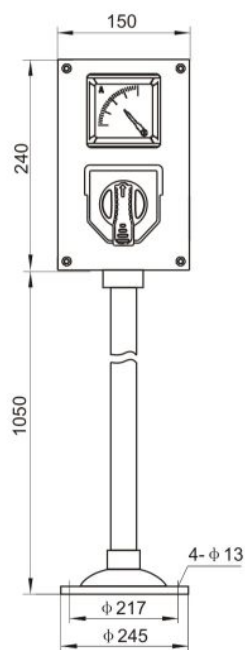
Enclosure 19



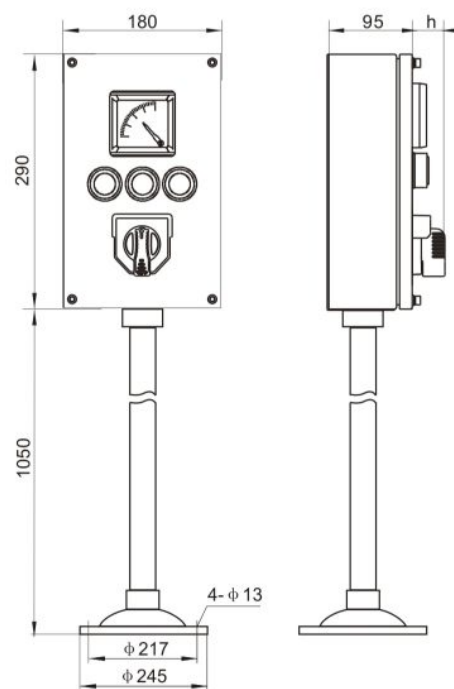
Enclosure 21/25



Enclosure 03



Enclosure 07



Enclosure 11

**7 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                      |