

## Anti-explosion Hygienic Pressure Transmitter

### Description

XDB313 series of pressure transmitters utilize imported high-precision and high-stability diffused silicon sensor with SS316L isolation diaphragm. Encased in a type 131 compact explosion-proof enclosure, they are directly output after laser resistance adjustment and temperature compensation. The international standard signal is 4-20mA output.

### Features

- ◆ High accuracy to 0.5%
- ◆ Intrinsically safe explosion-proof
- ◆ Strong anti-interference & good long-term stability
- ◆ Excellent corrosion resistance and reliability
- ◆ Provide OEM, flexible customization



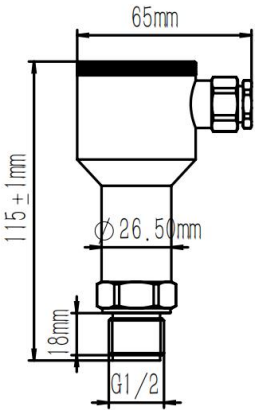
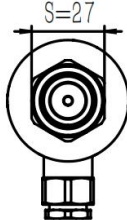
### Typical applications

- ◆ Energy and water treatment systems
- ◆ Suitable for the production and measurement of medical and food equipment.
- ◆ Widely used in the pressure measurement and control of corrosive gases, liquids and steam in the fields of petroleum, chemical industry, metallurgy, electric power, medicine, food, etc.

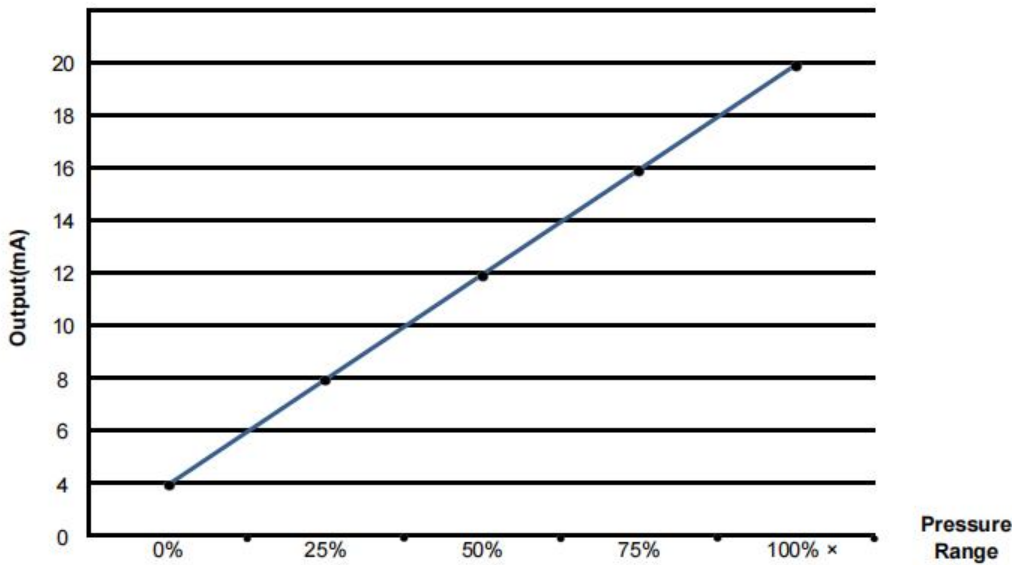
### Parameters

|                                      |                 |                     |                      |
|--------------------------------------|-----------------|---------------------|----------------------|
| Pressure range                       | -1~0~600 bar    | Accuracy            | ±0.5%FS              |
| Input voltage                        | DC 9~36(24)V    | Long-term stability | ≤±0.2% FS/year       |
| Output signal                        | 4-20mA          | Response time       | ≤3ms                 |
| Thread                               | G1/2            | Overload pressure   | 150% FS              |
| Electrical connector                 | Terminal wiring | Burst pressure      | 300% FS              |
| Insulation resistance                | >100 MΩ at 500V | Cycle life          | 500,000 times        |
| Operating temperature                | -40 ~85 °C      | Housing material    | 304 stainless steel  |
| Compensation temperature             | -20 ~ 80 °C     | Diaphragm material  | 316L stainless steel |
| Operating current                    | ≤3mA            | Protection class    | IP65                 |
| Temperature drift (zero&sensitivity) | ≤±0.03%FS/ °C   | Weight              | ≈0.45kg              |

### Dimensions(mm) & electrical connection

| Terminal wiring  | XDB313  |   |
|--|---|---|
| <b>4-20mA:</b><br><b>Red: Supply+①</b><br><b>Black: Output+②</b> |  |  |

Output Curve



How to order

E.g. **XDB313- 100B - 01 - 2 - A - G3 - W6 - b - 03 - Oil**

|   |  |      |
|---|--|------|
| 1 | Pressure range                                     | 100B |
|   | M(Mpa)    B(Bar)    P(Psi)    X(Others on request) |      |
| 2 | Pressure type                                      | 01   |
|   | 01(Gauge)    02(Absolute)                          |      |
| 3 | Supply voltage                                     | 2    |
|   | 2(9~36(24)VDC)    X(Others on request)             |      |
| 4 | Output signal                                      | A    |
|   | A(4-20mA)    X(Others on request)                  |      |

|   |   |     |
|---|---|-----|
| 5 | Pressure connection                           | G3  |
|   | G3(G1/2) X(Others on request)                 |     |
| 6 | Electrical connection                         | W6  |
|   | W6(Hirschmann DIN43650A) X(Others on request) |     |
| 7 | Accuracy                                      | b   |
|   | b(0.5% FS) X(Others on request)               |     |
| 8 | Paired cable                                  | 03  |
|   | 01(0.3m) 02(0.5m) 03(1m) X(Others on request) |     |
| 9 | Pressure medium                               | Oil |
|   | X(Please note)                                |     |


**Notes:**


1) Please connect the pressure transmitter to the opposite connection for different electric connector.


If the pressure transmitters come with cable, please refer to the right color.


2) If you have other requirements, please contact us and make notes in the order.

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