

# Model SDG

## Explosion Proofed Pressure Transmitter with Local Indication

### Description

SDG model accurately measures gauge, absolute vacuum pressure and transmit proportional 4 to 20mA signal. The transmitter with LCD display being explosion proofed bring true precision and reliability to industrial pressure monitoring applications. It offers you with a very competitive price and high quality.

### Features

- ▶ Explosion proof approval to Ex d IIB T4(Only 2wire mA Output)
- ▶ 3 1/2 digit LCD display
- ▶ Built-in amplifier circuit(VDC, mA)
- ▶ Optional 2-channel switching output (Relay output or NPN open collector output)
- ▶ Measuring range 0~150MPa
- ▶ 0.2 / 0.5%FS accuracy
- ▶ 11~28VDC or 110~220VAC(50~60Hz) excitation voltage

### Applications

- ▶ Process control & monitoring
- ▶ Hydraulics & Pneumatic
- ▶ Chemical & Petrochemical
- ▶ Liquid level measurement
- ▶ Food & Pharmaceutical
- ▶ Gas transmission pipe-line
- ▶ Plant utilities monitoring

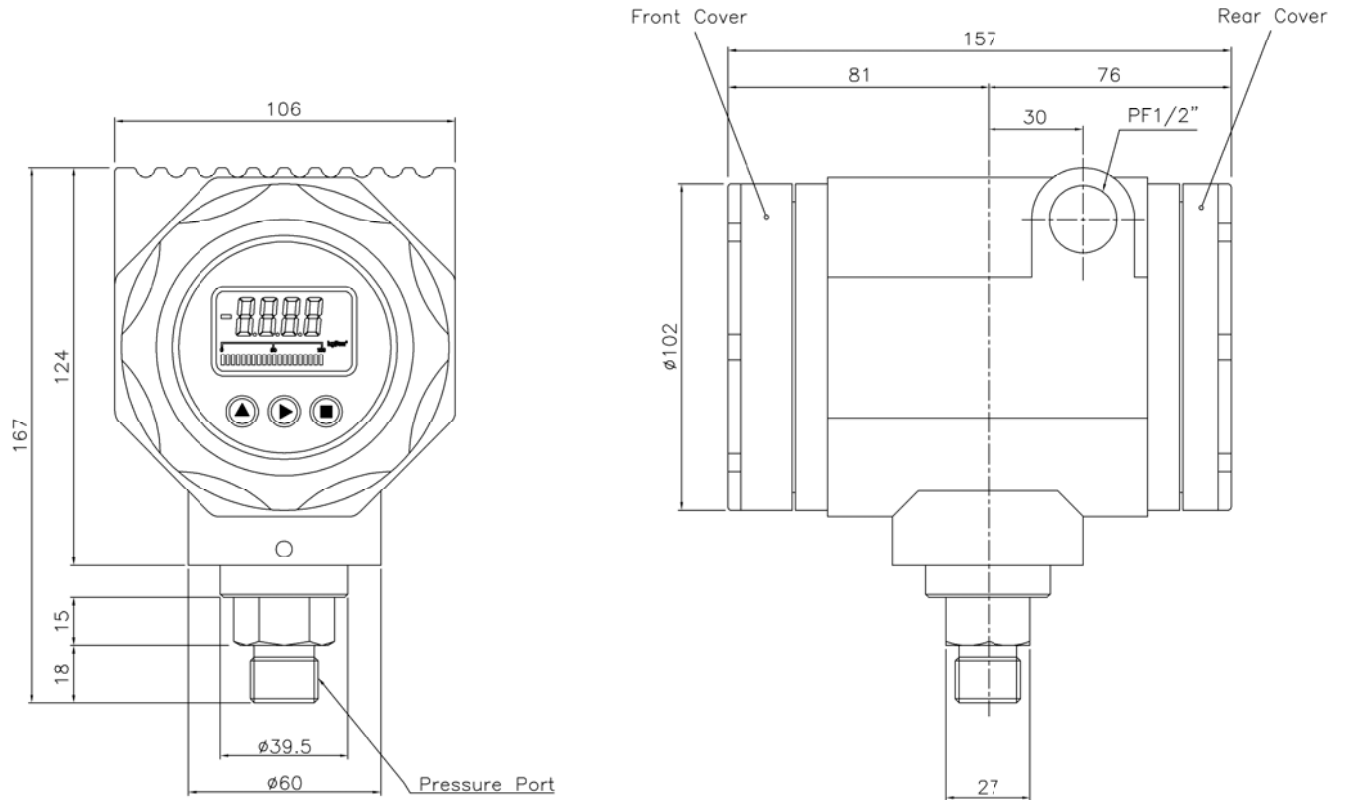


### Specifications

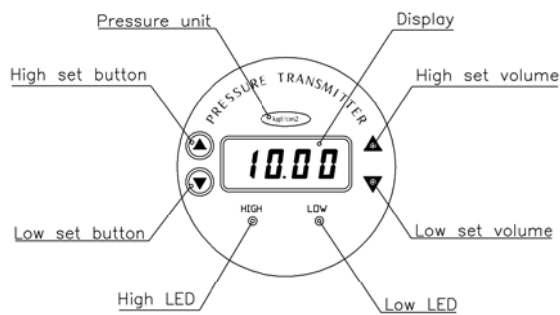
|                               | SDGH                                                                                                                                                                         | SDGS                   |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <b>Range</b>                  | 0 ~ 5,10,20,30,50,100,200,300,500,700kPa<br>2,3.5,7,20,35MPa(Gauge)<br>-100~-0,30,50,100,200,300,500,700kPa (Gauge)<br>0~100,200,300,500,700kPa /2,3.5,7,20,35MPa (Absolute) | 0~50,100,150MPa(Gauge) |
| <b>Performance</b>            |                                                                                                                                                                              |                        |
| Accuracy                      | ±0.2%FS ± 1digit                                                                                                                                                             | ±0.5%FS ± 1digit       |
| Thermal Effect on Zero        | ±0.03%FS/°C                                                                                                                                                                  | ±0.06%FS/°C            |
| Thermal Effect on Span        | ±0.03%FS/°C                                                                                                                                                                  | ±0.06%FS/°C            |
| Compensated Temperature Range | -10 ~ 70°C                                                                                                                                                                   |                        |
| Operating Temperature Range   | -20 ~ 80°C                                                                                                                                                                   |                        |
| <b>Electrical</b>             |                                                                                                                                                                              |                        |
| Display                       | ±1999(3 1/2) Digit LCD                                                                                                                                                       |                        |
| Excitation                    | 11 ~ 28VDC, 85~264VAC(50~50Hz)                                                                                                                                               |                        |
| Output                        |                                                                                                                                                                              |                        |
| Switching Signal              | 2Channel Relay, 2Channel NPN Open Collector                                                                                                                                  |                        |
| Analog Signal                 | 4~20mA(2, 4 Wire), 0~5VDC, 1~5VDC, 0~10VDC                                                                                                                                   |                        |
| Electrical Connection         | G(PF) 1/2", Cable Gland                                                                                                                                                      |                        |
| <b>Physical</b>               |                                                                                                                                                                              |                        |
| Proof Pressure                | 200%FS Max.                                                                                                                                                                  | 150%FS Max.            |
| Burst Pressure                | 300%FS Min.                                                                                                                                                                  | 200%FS Min.            |
| Vibration                     | 49.1m/s <sup>2</sup> {5G}, 10~500Hz                                                                                                                                          |                        |
| Shock                         | 490m/s <sup>2</sup> {50G}                                                                                                                                                    |                        |
| Pressure Port                 | R(PT)3/8", G(PF)3/8", R(PT)1/2", G(PF)1/2", Flange & Other Connection Available on Request                                                                                   |                        |
| Media-Wetted Materials        | Stainless Steel 316, VITON      Stainless Steel 316, Titanium 87%, EPDM                                                                                                      |                        |
| Explosion Proof               | Ex d IIB T4(4~20mA 2wire output type only)                                                                                                                                   |                        |
| Weight                        | Approx. 2kg (Standard type only)                                                                                                                                             |                        |

## Dimension

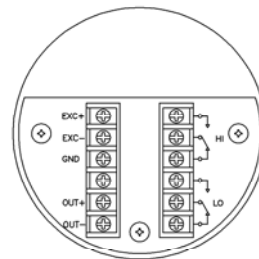
### ► Out Dimension



### ► Switching Output Type

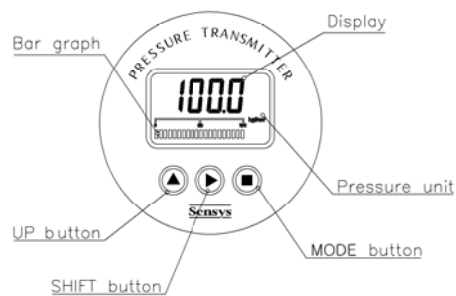


Front Panel

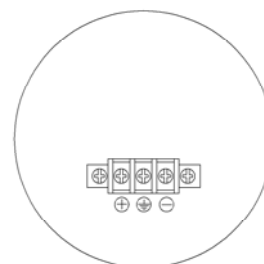


Terminal

### ► 2wire mA Output Type



Front Panel



Terminal

## Ordering Information

| SDGH H A 0100 R E A G        |  |  |  |                                     |  |  |  |  |  |
|------------------------------|--|--|--|-------------------------------------|--|--|--|--|--|
| <b>Model Name</b>            |  |  |  | <b>Type of Pressure Measurement</b> |  |  |  |  |  |
| SDGS : Accuracy 0.5%FS       |  |  |  | G : Gauge                           |  |  |  |  |  |
| SDGH : Accuracy 0.2%FS       |  |  |  | J : Absolute                        |  |  |  |  |  |
| <b>Analog Output</b>         |  |  |  | <b>Excitation</b>                   |  |  |  |  |  |
| B : 0~5V                     |  |  |  | A : 11~28VDC                        |  |  |  |  |  |
| D : 1~5V                     |  |  |  | B : 85~264VAC                       |  |  |  |  |  |
| F : 4~20mA(4Wire)            |  |  |  | (50~60Hz)                           |  |  |  |  |  |
| H : 4~20mA(2Wire)            |  |  |  | <b>Pressure port</b>                |  |  |  |  |  |
| K : 0~10V                    |  |  |  | A : R(PT)3/8" B : G(PF)3/8"         |  |  |  |  |  |
| <b>Switching Output</b>      |  |  |  | E : R(PT)1/2" Q : G(PF)1/2"         |  |  |  |  |  |
| A : None                     |  |  |  | * . Flange & Other Connection       |  |  |  |  |  |
| B : 2-Ch. Relay              |  |  |  | Available on Request                |  |  |  |  |  |
| C : 2-Ch. NPN Open Collector |  |  |  | <b>Pressure Unit</b>                |  |  |  |  |  |
| <b>Pressure Range</b>        |  |  |  | R : kPa M : MPa                     |  |  |  |  |  |
| XXXX : Pressure              |  |  |  | B : bar K : kgf/cm <sup>2</sup>     |  |  |  |  |  |
| CXXX : Compound Pressure     |  |  |  | P : psi H : mmHg                    |  |  |  |  |  |
|                              |  |  |  | C : cmH <sub>2</sub> O              |  |  |  |  |  |



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· Specifications are subject to change without notice.