

# HK7 Series PRESSURE • DATASHEET•



# **HK7 Series** Intelligent High-precision Monocrystalline Differential Pressure Transmitters



### Profile

HK7 series intelligent pressure/differential pressure transmitters, the central sensing unit adopts the world's leading high-precision silicon pressure and differential pressure sensor technology and packaging process. The single crystal silicon pressure and differential pressure sensor is located at the top of the metal body, away from the contact surface of the medium. To achieve mechanical isolation and thermal isolation; The sensor lead of glass sintering unit realizes high-strength electrical insulation with the metal substrate, which improves the flexibility of electronic circuits and the ability to withstand transient voltage protection. The circuit adopts a modular design with a microprocessor as the core and assisted by advanced digital isolation technology, so that the instrument has extremely high anti-interference and stability.

The Hart protocol is used for communication, which can be remotely operated through a Hart handheld communicator or a computer installed with Hart software to complete the measurement information configuration. At the same time, the digital compensation technology is used, and the transmitter is compensated through the built-in temperature sensor to improve the accuracy, temperature drift is reduced and features good long-term stability and high reliability. The most user-friendly design of the external one-key reset function meets the requirements of safe operation in hazardous situations. The shortcut menu is convenient for operation, and can complete all parameter settings, which comprehensively improves the performance of the transmitter.



### **Features**

- ♦ Advanced monocrystalline silicon pressure sensor technology and packaging technology adopted;
- Modularization design with microprocessor as the core and assisted by advanced digital isolation technology, which makes it with high anti-interference and stability;
- ♦Powerful 24-bit ADC achieves high precision;
- ♦Innovative dual compensation technology, 0.075% high precision.

### **Function Parameters**

| Range limit                        | Within the upper and lower limits of the measuring range, it can be adjusted arbitrarily. It is recommended to select a range code with the lowest possible turndown ratio to optimize performance                                                                                                                                                    |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Zero point setting                 | Zero point and range can be adjusted to any value within the measurement range in the table, as long as: calibration range ≥ minimum range                                                                                                                                                                                                            |
| Influence of installation location | The change of the installation position perpendicular to the diaphragm surface will not cause the zero drift effect. If the installation position and the diaphragm surface change more than $90^{\circ}$ , the zero position in the range of <0.4kPa will be affected. It can be adjusted by adjusting the zero and there is no impact on the range. |
| Output                             | Two-wire system 4-20mA, in line with NAMIR NE43 specification, superimposed digital signal (Hart protocol) Linear or square root output is optional.                                                                                                                                                                                                  |
| Output signal limit                | Imin=3.9mA, Imax=21.0mA                                                                                                                                                                                                                                                                                                                               |
| Fault warning                      | If the sensor or circuit fails, the automatic diagnosis function will automatically output 3.9 or 21.0mA (user can pre-set)                                                                                                                                                                                                                           |
| Alarm current                      | Low alarm mode (minimum): 3.9mA                                                                                                                                                                                                                                                                                                                       |
| High report mode (maximum)         | 21 mA                                                                                                                                                                                                                                                                                                                                                 |
| Alarm current default setting      | High alarm mode                                                                                                                                                                                                                                                                                                                                       |
| Response time                      | The damping constant of the amplifier component is 0.1s; the time constant of the sensor is 0.1 to 1.6s, depending on the range and the range ratio. The additional adjustable time constant is: $0 \sim 100$ s                                                                                                                                       |
| Preheating time                    | <15s                                                                                                                                                                                                                                                                                                                                                  |



### Performance Parameters

| Measuring medium              | Gas, steam, liquid                                           |
|-------------------------------|--------------------------------------------------------------|
| Accuracy                      | ±0.2%,±0.075%,±0.1%(Including linearity, hysteresis and      |
| Accuracy                      |                                                              |
|                               | repeatability from zero)                                     |
| Stability                     | ±0.1%/3 years                                                |
| Ambient temperature influence | ≤±0.04%URL/10°C                                              |
| Influence of static pressure  | ±0.05%/10MPa                                                 |
| Power supply                  | 10~36Vdc(24Vdc recommended)                                  |
| Power influence               | $\pm 0.001\%/10V$ (10 $\sim$ 36Vdc), which can be negligible |
| Ambient temperature           | -40°C ~85°C                                                  |
| Measuring medium temperature  | -40°C~120°C                                                  |
| Storage temperature           | -40°C ~105°C                                                 |
| Display                       | LCD, OLED                                                    |
| Module temperature shown on   | -20°C~70°C (LCD), -40°C~80°C (OLED)                          |
| display                       |                                                              |
| Explosion-proof rating        | Exd II CT6, Exia II CT4                                      |
| IP Rating for Housing         | IP65(HK71); IP67(HK75, HK76, HK78)                           |

### Overload and static pressure

|   | Range  | Unilateral overload Unilateral overload (negative end) (positive end) |       | Bilateral static<br>pressure |
|---|--------|-----------------------------------------------------------------------|-------|------------------------------|
| Α | 1KPa   | 16MPa                                                                 | 16МРа | 40МРа                        |
| В | 6КРа   | 16МРа                                                                 | 16МРа | 40MPa                        |
| С | 40КРа  | 25MPa                                                                 | 25MPa | 40MPa                        |
| D | 400KPa | 25MPa                                                                 | 25MPa | 40MPa                        |
| Е | 4MPa   | 25MPa                                                                 | 25MPa | 40MPa                        |

# **HK71** Smart Direct-mounted Gauge Pressure/Absolute Pressure Transmitter

### Gauge pressure range and range

| Range code | Measuring range(KPa) | Accuracy/Stability            |
|------------|----------------------|-------------------------------|
| A          | -6~6                 |                               |
| В          | -40~40               |                               |
| С          | -100~100             | ±0.075%F.S of the range/      |
| D          | -100~400             | The maximum error per year is |
| Е          | -100~4000            | ±0.1% of range                |
| F          | -100~40000           |                               |



### Absolute pressure range and range

| Range code | Measuring range(KPa) | Accuracy/Stability            |
|------------|----------------------|-------------------------------|
| A          | 0~40                 | ±0.075%F.S of the range/      |
| В          | 0~250                | The maximum error per year is |
| С          | 0~2000               | ±0.1% of range                |

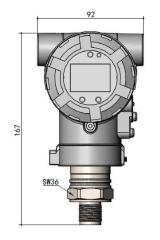
### Gauge pressure overload limit

| Range      | 1KPa | 6КРа | 40KPa | 100KPa | 400KPa | 4000KPa | 40000KPa |
|------------|------|------|-------|--------|--------|---------|----------|
|            | Α    | В    | С     | D      | Е      | F       | G        |
| Load limit | 1MPa | 2МРа | 5МРа  | 7MPa   | 9МРа   | 10MPa   | 50MPa    |

### Absolute pressure overload limit

| Range      | 40KPa | 250KPa | 2000KPa |
|------------|-------|--------|---------|
|            | A     | B      | C       |
| Load limit | 1MPa  | 4MPa   | 10MPa   |

### Dimensions





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### How to Order

| Code | Туре    |          |                        |         |         |                            |                      |                                           |  |
|------|---------|----------|------------------------|---------|---------|----------------------------|----------------------|-------------------------------------------|--|
| GP   | Smart I | Pressure | e Transm               | itter   |         |                            |                      |                                           |  |
| AP   | Smart A | Absolute | e Pressure Transmitter |         |         |                            |                      |                                           |  |
|      | Code    | Gauge    | Pressure               | e Range | (КРа)   | Absolut                    | e Pressure Range     | (KPa)                                     |  |
|      | A       | 0~1~6    |                        |         |         | 0~6~40                     |                      |                                           |  |
|      | В       | 0~6~40   | )                      |         |         | 0~40~25                    | 60                   |                                           |  |
|      | С       | 0~40~1   | 100                    |         |         | 0~250~2                    | 2000                 |                                           |  |
|      | D       | 0~100    | ~400                   |         |         |                            |                      |                                           |  |
|      | Е       | 0~400    | ~4000                  |         |         |                            |                      |                                           |  |
|      | F       | 0~4000   | 0~40000                |         |         |                            |                      |                                           |  |
|      |         | Code     | Output                 | signal  |         |                            |                      |                                           |  |
|      |         | Н        | 4~20m                  | ıA      |         |                            |                      |                                           |  |
|      |         | S        | 4~20m                  | A+Hart  |         |                            |                      |                                           |  |
|      |         |          | Code                   | Display | ау      |                            |                      |                                           |  |
|      |         |          | M1                     | LCD     |         |                            |                      |                                           |  |
|      |         |          | M2                     | OLED(   | Low tem | perature re                | esistant -40°C )     |                                           |  |
|      |         |          |                        | Code    | Process | Connection                 | on                   |                                           |  |
|      |         |          |                        | C1      | M20×1   | .5 male                    |                      |                                           |  |
|      |         |          |                        | C2      | G1/2"   | male                       |                      |                                           |  |
|      |         |          |                        | С3      | G1/4"   | male                       |                      |                                           |  |
|      |         |          |                        | C4      | 1/2" N  | PT male                    |                      |                                           |  |
|      |         |          |                        | C5      | 1/2" N  | PT female                  |                      |                                           |  |
|      |         |          |                        | Т       | Special | request                    |                      |                                           |  |
|      |         |          |                        |         | Code    | Hazardou                   | ıs location certifi  | cation (do not fill in for ordinary type) |  |
|      |         |          |                        |         | E0      | Non-expl                   | osion proof          |                                           |  |
|      |         |          |                        |         | E1      | Flamepro                   | oof, Exd II CT6      |                                           |  |
|      |         |          |                        |         | 12      | Intrinsica                 | ılly safe, Exia II C | Т4                                        |  |
|      |         |          |                        |         |         | Code Electrical connection |                      |                                           |  |
|      |         |          |                        |         |         | D1 M20×1.5                 |                      |                                           |  |
|      |         |          |                        |         |         | D2                         | User specified       |                                           |  |
|      |         |          |                        |         |         |                            | Code                 | Special requirement                       |  |
|      |         |          |                        |         |         |                            | Т                    | User specified                            |  |
| GP   | A       | Н        | M1                     | C1      | E1      | D1                         | Т                    | Model No. example                         |  |



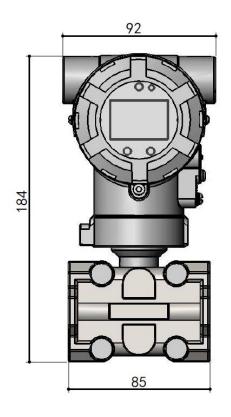
# **HK75** Intelligent High-precision Monocrystalline Differential Pressure Transmitter

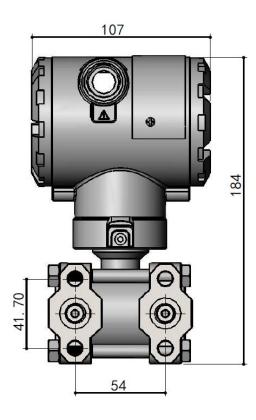
### **Measuring Range**

| Range code | Measuring range(KPa) | Accuracy/Stability                           |
|------------|----------------------|----------------------------------------------|
| A          | -1~1                 |                                              |
| В          | -6~6                 |                                              |
| С          | -40~40               | ±0.075%F.S of the range;                     |
| D          | -100~100             | The maximum error per year is ±0.1% of range |
| Е          | -100~400             | year is 2012/0 or range                      |
| F          | -100~4000            |                                              |



### Dimensions





How to Order

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### PRESSURE MEASUREMENT

| Code | Type |            |          |           |                                     |                  |                            |                            |             |                            |                    |
|------|------|------------|----------|-----------|-------------------------------------|------------------|----------------------------|----------------------------|-------------|----------------------------|--------------------|
| DP   |      | Differenti | al Press | ure Senso | or                                  |                  |                            |                            |             |                            |                    |
|      | Code | DP Rang    | e (KPa)  |           |                                     |                  |                            |                            |             |                            |                    |
|      | A    | 0~0.2~1    |          |           |                                     |                  |                            |                            |             |                            |                    |
|      | В    | 0~1~6      |          |           |                                     |                  |                            |                            |             |                            |                    |
|      | С    | 0~6~40     |          |           |                                     |                  |                            |                            |             |                            |                    |
|      | D    | 0~40~1     |          |           |                                     |                  |                            |                            |             |                            |                    |
|      | Е    | 0~100~     | ~400     |           |                                     |                  |                            |                            |             |                            |                    |
|      | F    | 0~400~     | 4000     |           |                                     |                  |                            |                            |             |                            |                    |
|      |      | Code       | Output   |           |                                     |                  |                            |                            |             |                            |                    |
|      |      | Н          | 4~20n    | nA        |                                     |                  |                            |                            |             |                            |                    |
|      |      | S          | 4~20n    | nA+Hart   |                                     |                  |                            |                            |             |                            |                    |
|      |      | J          | Square   | root 4~   | 20mA                                |                  |                            |                            |             |                            |                    |
|      |      |            | Code     | Display   | splay                               |                  |                            |                            |             |                            |                    |
|      |      |            | M1       | LCD       | ı                                   |                  |                            |                            |             |                            |                    |
|      |      |            | M2       |           | ED(Low temperature resistant -40°C) |                  |                            |                            |             |                            |                    |
|      |      |            |          | Code      |                                     |                  |                            |                            |             |                            |                    |
|      |      |            |          | C0        | NPT1/4 + Φ14                        |                  |                            |                            |             |                            |                    |
|      |      |            |          | C1        | NPT1/2                              |                  |                            |                            |             |                            |                    |
|      |      |            |          | C2        | M20×1.5                             |                  |                            |                            |             |                            |                    |
|      |      |            |          | C3        | Integrated three valve group        |                  |                            |                            |             |                            |                    |
|      |      |            |          |           | Code                                |                  | e materia                  | 1                          | . , .       |                            | D: 1               |
|      |      |            |          |           | 24                                  | Flange           |                            |                            | ain/exhau   | st                         | Diaphragm          |
|      |      |            |          |           | 21                                  | 304 SS           |                            | 304 SS                     |             | 316 SS                     |                    |
|      |      |            |          |           | 22                                  | 316 SS<br>316 SS |                            |                            |             |                            | 316 SS             |
|      |      |            |          |           | 24                                  | 316 SS           |                            | 316 SS<br>316 SS<br>316 SS |             | Hastelloy C<br>Monel alloy |                    |
|      |      |            |          |           | 25                                  | 316 SS           |                            |                            |             |                            | Tantalum           |
|      |      |            |          |           | 26                                  | Hastello         | v C                        | Hastelloy C                |             |                            | Hastelloy C        |
|      |      |            |          |           | 27                                  | Hastello         |                            | Hastelloy C                |             | Tantalum                   |                    |
|      |      |            |          |           | 28                                  | Monel a          |                            | Monel                      |             |                            | Monel alloy        |
|      |      |            |          |           |                                     | Code             | Relief va                  |                            |             |                            | 1 - 101101 41103   |
|      |      |            |          |           |                                     | X0               | Vent val                   |                            |             |                            |                    |
|      |      |            |          |           |                                     | X1               | Drain va                   |                            |             |                            |                    |
|      |      |            |          |           |                                     |                  | Code                       |                            | ing bracket | t                          |                    |
|      |      |            |          |           |                                     |                  | В0                         |                            | ıt mountin  |                            | cket               |
|      |      |            |          |           |                                     |                  | B1                         |                            | ending bra  |                            |                    |
|      |      |            |          |           |                                     |                  | B2                         |                            |             |                            | ng bracket         |
|      |      |            |          |           | B3                                  |                  | Tube n                     | be mounted flat bracket    |             | cket                       |                    |
|      |      |            |          |           |                                     |                  | Code                       | Hazardou                   | ıs loc      | ation certification        |                    |
|      |      |            |          |           |                                     |                  | E0                         |                            |             | proof                      |                    |
|      |      |            |          |           |                                     |                  | E1 Flame-proof, Exd II CT6 |                            |             | Exd II CT6                 |                    |
|      |      |            |          |           |                                     |                  |                            | E2                         | Intrinsica  | ally sa                    | afe, Exia II CT4   |
|      |      |            |          |           |                                     |                  |                            |                            | Code        | Ele                        | ctrical connection |
|      |      |            |          |           |                                     |                  |                            |                            | D1          |                            | 0×1.5              |
|      |      |            |          |           |                                     |                  |                            |                            | D2          |                            | er specified       |
| DP   | A    | Н          | M1       | C1        | 21                                  | X0               | B1                         | E1                         | D1          | Mo                         | del No. Example    |



# **HK76** Intelligent Monocrystalline Flat Diaphragm/Cylinder Flange Liquid Level Transmitter

## Measuring Range

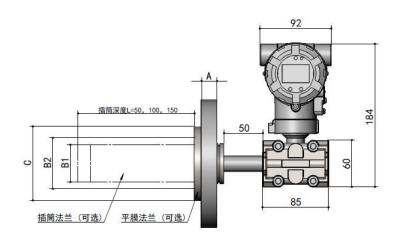


| Range<br>code | Min<br>Range(KPa) | Max<br>Range(KPa) | Rated pressure<br>(maximum) |
|---------------|-------------------|-------------------|-----------------------------|
| В             | 1                 | 6                 |                             |
| С             | 6                 | 40                | Rated pressure of           |
| D             | 40                | 400               | liquid level flange         |
| Е             | 400               | 4000              |                             |

### Comparison of relationship between flange and min range

| Liquid level flange | Nominal diameter | Minimum range |
|---------------------|------------------|---------------|
|                     | DN 50/2"         | 10КРа         |
| Flat Diaphragm type | DN 80/3"         | 1KPa          |
|                     | DN 100/4"        | 1KPa          |
|                     | DN 50/2"         | 16КРа         |
| Cylinder            | DN 80/2"         | 1KPa          |
|                     | DN 100/4"        | 1KPa          |

### Dimensions





### How to Order

| Code | Type |          |          |          |                                                        |                |          |                |                  |                |                    |  |  |  |
|------|------|----------|----------|----------|--------------------------------------------------------|----------------|----------|----------------|------------------|----------------|--------------------|--|--|--|
| LT   |      | gent Fla | at Diaph | ragm F   | lange L                                                | iquid Le       | evel Tra | nsmittei       |                  |                |                    |  |  |  |
| СТ   |      |          |          | Flange L |                                                        | _              |          |                |                  |                |                    |  |  |  |
|      | Code |          |          | suring F |                                                        |                |          |                |                  |                |                    |  |  |  |
|      | В    | 1~6      |          | 3        | 8-(                                                    |                |          |                |                  |                |                    |  |  |  |
|      | С    | 6~40     |          |          |                                                        |                |          |                |                  |                |                    |  |  |  |
|      | D    | 40~40    | 00       |          |                                                        |                |          |                |                  |                |                    |  |  |  |
|      | E    | 400~4    |          |          |                                                        |                |          |                |                  |                |                    |  |  |  |
|      | Е.   | Code     |          | t Signal |                                                        |                |          |                |                  |                |                    |  |  |  |
|      |      | Н        | 4~20r    |          |                                                        |                |          |                |                  |                |                    |  |  |  |
|      |      | S        |          |          | A+Hart                                                 |                |          |                |                  |                |                    |  |  |  |
|      |      | 3        | Code     |          |                                                        |                |          |                |                  |                |                    |  |  |  |
|      |      |          | M1       |          | LCD                                                    |                |          |                |                  |                |                    |  |  |  |
|      |      |          |          |          | (Lowe                                                  | tompor         | turo ro  | cictant        | 40°C )           |                |                    |  |  |  |
|      |      |          | M2       |          | LED (Low temperature resistant -40°C) ructure material |                |          |                |                  |                |                    |  |  |  |
|      |      |          |          | Code     |                                                        | ge Mate        | rial     | Code           | Diaphragm        | Code           | Coating            |  |  |  |
|      |      |          |          | 22       | 3049                                                   |                | ııaı     | N1             | 316L SS          | T1             | None               |  |  |  |
|      |      |          |          | 23       | 3169                                                   |                |          | N2             | Hastelloy C      | T2             | PTFE               |  |  |  |
|      |      |          |          | 23       | 310                                                    | 33             |          |                | •                | 12             | FIFE               |  |  |  |
|      |      |          |          |          |                                                        |                |          | N3             | Monel alloy      |                |                    |  |  |  |
|      |      |          |          |          |                                                        |                |          | N4             | Tantalum         |                |                    |  |  |  |
|      |      |          |          |          | 0 1                                                    | 7.6            | 5:       | N5<br>nensions | Titanium         |                |                    |  |  |  |
|      |      |          |          |          | Code                                                   |                |          |                |                  |                |                    |  |  |  |
|      |      |          |          |          | C1                                                     | DN80<br>DN100  |          |                |                  |                |                    |  |  |  |
|      |      |          |          |          |                                                        |                |          |                |                  |                |                    |  |  |  |
|      |      |          |          | -        |                                                        |                |          |                |                  |                |                    |  |  |  |
|      |      |          |          | I –      | <u>C4</u>                                              | 2"             |          |                |                  |                |                    |  |  |  |
|      |      |          |          |          | C5                                                     | 3"             |          |                |                  |                |                    |  |  |  |
|      |      |          |          |          | C6                                                     | 4"             |          |                |                  |                |                    |  |  |  |
|      |      |          |          |          | C7                                                     | User specified |          |                |                  |                |                    |  |  |  |
|      |      |          |          |          |                                                        | Code           |          |                |                  |                |                    |  |  |  |
|      |      |          |          |          |                                                        | L10            | L11 50   |                |                  |                |                    |  |  |  |
|      |      |          |          |          |                                                        |                |          |                |                  |                |                    |  |  |  |
|      |      |          |          |          |                                                        | L12            | 100      |                |                  |                |                    |  |  |  |
|      |      |          |          |          |                                                        | L13            | 150      |                |                  |                |                    |  |  |  |
|      |      |          |          |          |                                                        | LT             |          | pecified       |                  |                |                    |  |  |  |
|      |      |          |          |          |                                                        |                | Code     |                | ry length (m)    |                |                    |  |  |  |
|      |      |          |          |          |                                                        |                | F0       | None           |                  |                |                    |  |  |  |
|      |      |          |          |          |                                                        |                | F1       | 1m             |                  |                |                    |  |  |  |
|      |      |          |          |          |                                                        |                | F2       | 2m             |                  |                |                    |  |  |  |
|      |      |          |          |          |                                                        |                | F3       | 3m             |                  |                |                    |  |  |  |
|      |      |          |          |          |                                                        |                | F4       | User sp        |                  |                |                    |  |  |  |
|      |      |          |          |          |                                                        |                |          | Code           | Mounting bracke  |                |                    |  |  |  |
|      |      |          |          |          |                                                        |                |          | A1             | Without mountin  |                |                    |  |  |  |
|      |      |          |          |          |                                                        |                |          | A2             | Tube bending bra |                |                    |  |  |  |
|      |      |          |          |          |                                                        |                |          | A3             | Board-mounted b  |                | et                 |  |  |  |
|      |      |          |          |          |                                                        |                |          | A4             | Tube mounted fla |                | _                  |  |  |  |
|      |      |          |          |          |                                                        |                |          |                | Code             |                | tification (do not |  |  |  |
|      |      |          |          |          |                                                        |                |          |                | fill in for c    | ordinary type) |                    |  |  |  |
|      |      |          |          |          |                                                        |                |          |                | E0 No explos     |                |                    |  |  |  |
|      |      |          |          |          |                                                        |                |          |                | E1 Flamepro      | of, Exd II CT6 | <u> </u>           |  |  |  |



|    |   |   |    |    |    |     |    |    | E2 | Intrinsically safe, Exia II CT4 |                       |  |  |
|----|---|---|----|----|----|-----|----|----|----|---------------------------------|-----------------------|--|--|
|    |   |   |    |    |    |     |    |    |    | Code                            | Electrical connection |  |  |
|    |   |   |    |    |    |     |    |    |    | D1                              | M20×1.5               |  |  |
|    |   |   |    |    |    |     |    |    |    | D2 User specified               |                       |  |  |
| LT | В | Н | M1 | 22 | C1 | L10 | F1 | A1 | E0 | D1                              | Model No. Example     |  |  |

# **HK78** Intelligent Monocrystalline Dual-remote Flat Diaphragm/Cylinder Flange Liquid Level Transmitter



### **Measuring Range**

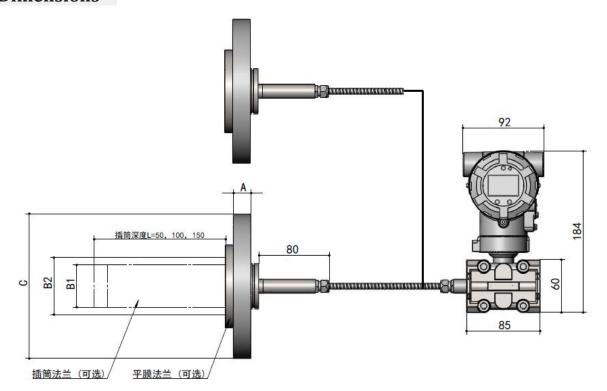
| Range code | Min Range(KPa) | Max Range(KPa) | Rated pressure (max)           |  |  |
|------------|----------------|----------------|--------------------------------|--|--|
| В          | 1КРа           | 6КРа           |                                |  |  |
| С          | 6КРа           | 40КРа          | Rated pressure of liquid level |  |  |
| D          | 40КРа          | 400KPa         | flange                         |  |  |
| Е          | 400KPa         | 4MPa           |                                |  |  |



### Comparison of relationship between flange and min range

|                   |          | Min range                      |                               |  |  |  |  |  |  |
|-------------------|----------|--------------------------------|-------------------------------|--|--|--|--|--|--|
| Flange            | DN       | Unilateral remote transmission | Bilateral remote transmission |  |  |  |  |  |  |
| _,                | DN 50/2" | 10КРа                          | 10КРа                         |  |  |  |  |  |  |
| Flat<br>Diaphragm | DN 80/3" | 6КРа                           | 1KPa                          |  |  |  |  |  |  |
| Diapinagin        | DN 4"    | 6КРа                           | 1KPa                          |  |  |  |  |  |  |
|                   | DN 50/2" | 10КРа                          | 10КРа                         |  |  |  |  |  |  |
| Cylinder          | DN 80/2" | 6КРа                           | 1KPa                          |  |  |  |  |  |  |
|                   | DN 4"    | 6КРа                           | 1KPa                          |  |  |  |  |  |  |

### Dimensions





### How to Order

| Code | Туре | Type    |               |                         |             |                                      |                                 |                       |      |         |  |  |  |
|------|------|---------|---------------|-------------------------|-------------|--------------------------------------|---------------------------------|-----------------------|------|---------|--|--|--|
| DY   |      | ent rem | ote diffe     | rential p               | oressure tr | ansmitt                              | er                              |                       |      |         |  |  |  |
| GY   |      |         |               |                         | nsmitter    |                                      |                                 |                       |      |         |  |  |  |
|      | Code | Pressu  | re measi      | urement                 | t range(KF  | Pa)                                  |                                 |                       |      |         |  |  |  |
|      | В    | 1~6     |               |                         |             |                                      |                                 |                       |      |         |  |  |  |
|      | С    | 6~40    |               |                         |             |                                      |                                 |                       |      |         |  |  |  |
|      | D    | 40~25   |               |                         |             |                                      |                                 |                       |      |         |  |  |  |
|      | Е    | 250~4   |               |                         |             |                                      |                                 |                       |      |         |  |  |  |
|      |      | Code    | Output 4~20mA |                         |             |                                      |                                 |                       |      |         |  |  |  |
|      |      | Н       |               |                         |             |                                      |                                 |                       |      |         |  |  |  |
|      |      | S       |               | 4~20mA+Hart             |             |                                      |                                 |                       |      |         |  |  |  |
|      |      |         | Code          | Displa                  | у           |                                      |                                 |                       |      |         |  |  |  |
|      |      |         | M1            | LCD                     |             |                                      |                                 |                       |      |         |  |  |  |
|      |      |         | M2            | OLED(                   | Low temp    | erature                              | resistan                        |                       |      |         |  |  |  |
|      |      |         |               |                         | T           |                                      |                                 | Structure material    |      |         |  |  |  |
|      |      |         |               | Code                    | Flange M    | <u> </u>                             | Code                            | Diaphragm material    | Code | Coating |  |  |  |
|      |      |         |               | 22 304 SS N1 316L SS T1 |             |                                      |                                 |                       |      | None    |  |  |  |
|      |      |         |               | 23                      | 316 SS      |                                      | N2                              | Hastelloy C           | T2   | PTFE    |  |  |  |
|      |      |         |               |                         |             |                                      | N3                              | Monel alloy           |      |         |  |  |  |
|      |      |         |               |                         |             |                                      | N4                              | Tantalum              |      |         |  |  |  |
|      |      |         |               |                         |             |                                      | N5                              | Titanium              |      |         |  |  |  |
|      |      |         |               |                         | 0.1         | 7.7                                  | N6 PTFE sprayed ting Dimensions |                       |      |         |  |  |  |
|      |      |         |               |                         | Code        |                                      | ing Dim                         | ensions               |      |         |  |  |  |
|      |      |         |               |                         | C1          | DN50                                 |                                 |                       |      |         |  |  |  |
|      |      |         |               |                         | C2<br>C3    | DN80                                 | `                               |                       |      |         |  |  |  |
|      |      |         |               |                         | C4          | 2"                                   | )                               |                       |      |         |  |  |  |
|      |      |         |               |                         | C5          | 3"                                   |                                 |                       |      |         |  |  |  |
|      |      |         |               |                         | C6          | 4"                                   |                                 |                       |      |         |  |  |  |
|      |      |         |               |                         | C7          |                                      | pecified                        |                       |      |         |  |  |  |
|      |      |         |               |                         | u,          | Code                                 |                                 | e transmission device |      |         |  |  |  |
|      |      |         |               |                         |             | Y0                                   |                                 | lat flange type       |      |         |  |  |  |
|      |      |         |               |                         |             | Y1                                   |                                 | flat flange type      |      |         |  |  |  |
|      |      |         |               |                         |             | Y2 Single cylinder flange type       |                                 |                       |      |         |  |  |  |
|      |      |         |               |                         |             | Y3 Double- cylinder flange type      |                                 |                       |      |         |  |  |  |
|      |      |         |               |                         |             | Y4 One flat one cylinder flange type |                                 |                       |      |         |  |  |  |
|      |      |         |               |                         |             | Code Capillary length                |                                 |                       |      |         |  |  |  |
|      |      |         |               |                         |             | X0 1m                                |                                 |                       |      |         |  |  |  |
|      |      |         |               |                         |             | X1 2m                                |                                 |                       |      |         |  |  |  |
|      |      |         |               |                         |             |                                      | X2                              | 3m                    |      |         |  |  |  |
|      |      |         |               |                         |             |                                      | Х3                              | User specified        |      |         |  |  |  |

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•E-mail: info@holykell.com

•Tel: +86 731 89873265 •Fax: +86 731 89873646



|    |   |   |    |                |    |    |    | Code |         | er lengt                              | h (mm   |                          |
|----|---|---|----|----------------|----|----|----|------|---------|---------------------------------------|---------|--------------------------|
|    |   |   |    |                |    |    |    | 10   | 0(Flat  | flange)                               |         |                          |
|    |   |   |    |                |    |    |    | 11   | 50      |                                       |         |                          |
|    |   |   |    |                |    |    |    | 12   | 100     |                                       |         |                          |
|    |   |   |    |                |    |    |    | 13   | 150     |                                       |         |                          |
|    |   |   |    |                |    |    |    | T    | User sp | ecified                               |         |                          |
|    |   |   |    |                |    |    |    |      | Code    | Mounting bracket                      |         |                          |
|    |   |   |    |                |    |    |    |      | В0      | Without mounting bracket              |         |                          |
|    |   |   |    |                |    |    |    |      | B1      | Tube bending bracket                  |         |                          |
|    |   |   |    |                |    |    |    |      | B2      | Board-mounted bending bracket         |         |                          |
|    |   |   |    |                |    |    |    |      | В3      | Tube mounted flat bracket             |         |                          |
|    |   |   |    |                |    |    |    |      |         | Hazardous location                    |         | dous location            |
|    |   |   |    |                |    |    |    |      |         | Code certification (do not fill in fo |         |                          |
|    |   |   |    |                |    |    |    |      |         |                                       |         | ry type)                 |
|    |   |   |    |                |    |    |    |      |         | E0                                    |         | explosion-proof          |
|    |   |   |    |                |    |    |    |      |         | E1                                    | Flame   | proof, Exd II CT6        |
|    |   |   |    |                |    |    |    |      |         | E2                                    | Intrins | sically safe,Exia II CT4 |
|    |   |   |    |                |    |    |    |      |         |                                       | Code    | Electrical connection    |
|    |   |   |    |                |    |    |    |      |         |                                       | D1      | M20×1.5                  |
|    |   |   |    |                |    |    |    |      |         |                                       | D2      | User specified           |
| DY | В | Н | M1 | 22<br>N1<br>T1 | C1 | Y0 | Х0 | 10   | В0      | E0                                    | D1      | Model No. Example        |

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