

LFT2020 Sanitary Flat Membrane Pressure Transmitter

FEATURES

- High temperature model and normal temperature model optional
- Adopt ASIC digital compensation technology
- Excellent anti-corrosion and anti-wear properties
- Strong anti-interference, good long-term stability
- 50.5mm chuck connection, easy to install and clean
- The part in contact with the measured object is made of 316L material, which is suitable for medical and sanitation industries



DESCRIPTION

LFT2020 Sanitary Flat Membrane Pressure Transmitter adopts high-performance oil-filled diffusion silicon core. The internal special-purpose integrated circuit converts the millivolt signal of the sensor into standard voltage, current or 485 signal, which can be directly connected with computer interface card, control instrument, intelligent instrument or PLC. The process connection of the pressure transmitter is sealed by sterile chuck type diaphragm, which is widely applied in the food, dairy, chemical and pharmaceutical industries.

SPECIFICATION

|                                             |                                                                                                                                    |              |          |          |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------|----------|----------|
| Measurement Range                           | -100kPa...0~10kPa...7MPa                                                                                                           |              |          |          |
| Overload Pressure                           | 1.5 times of the rated pressure                                                                                                    |              |          |          |
| Accuracy ①                                  | ±0.5%F. S                                                                                                                          |              |          |          |
| Stability                                   | <0.5%F.S/year                                                                                                                      |              |          |          |
| Working Temp ②                              | -20~85℃                                                                                                                            |              |          |          |
| Medium Temp ③                               | -40℃~100℃/-40℃~150℃                                                                                                                |              |          |          |
| Measure Medium                              | Media Compatible with 316L Stainless Steel, Selected Rubber Rings                                                                  |              |          |          |
| Sanitary Flat Membrane Pressure Transmitter |                                                                                                                                    |              |          |          |
| Electrical Properties                       | 2-wired                                                                                                                            | 3-wired      | 3-wired  | 4-wired  |
| Output Signal                               | 4~20mA                                                                                                                             | 0.5~4.5V     | 0~10V    | RS485    |
| Power Supply                                | 10~36VDC                                                                                                                           | 4.75~5.25VDC | 12~36VDC | 10~30VDC |
| Electrical Connection                       | DIN43650A (Big Hirschmannn),M12 waterproof outlet, M12 aviation connector (four cores), GX12 aviation connector (three/four cores) |              |          |          |

| Explosion-proof Digital Display Sanitary Flat Membrane Pressure Transmitter |                                      |          |          |
|-----------------------------------------------------------------------------|--------------------------------------|----------|----------|
| Electrical Properties                                                       | 2-wired                              | 3-wired  | 4-wired  |
| Output Signal                                                               | 4~20mA                               | 0~10V    | RS485    |
| Power Supply                                                                | 10~30VDC                             | 14~36VDC | 10~36VDC |
| Electrical Connection                                                       | Direct cable outlet                  |          |          |
| Enclosure Protection                                                        | IP65                                 |          |          |
| Pressure Connection                                                         | 50.5mm chuck connection              |          |          |
| Pressure Form                                                               | Gauge Pressure G/Absolute Pressure A |          |          |
| Certification                                                               | EU electrical safety standard CE     |          |          |

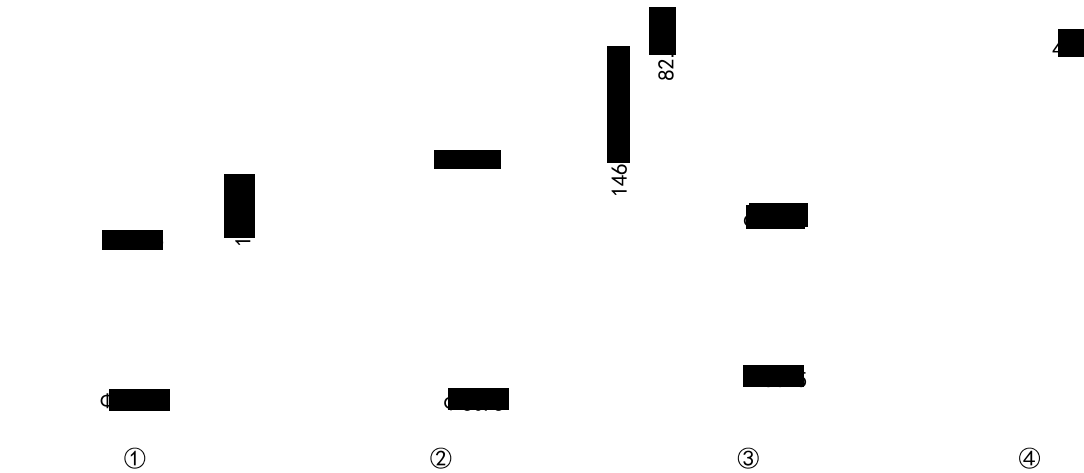
①Measured at 25℃, including the comprehensive accuracy of linearity, repeatability and hysteresis  
②Without heat sink is -40~100℃,with heat sink is -40~150℃ ③The oil-filled silicon core is 316L stainless steel

ORDER REF NO.

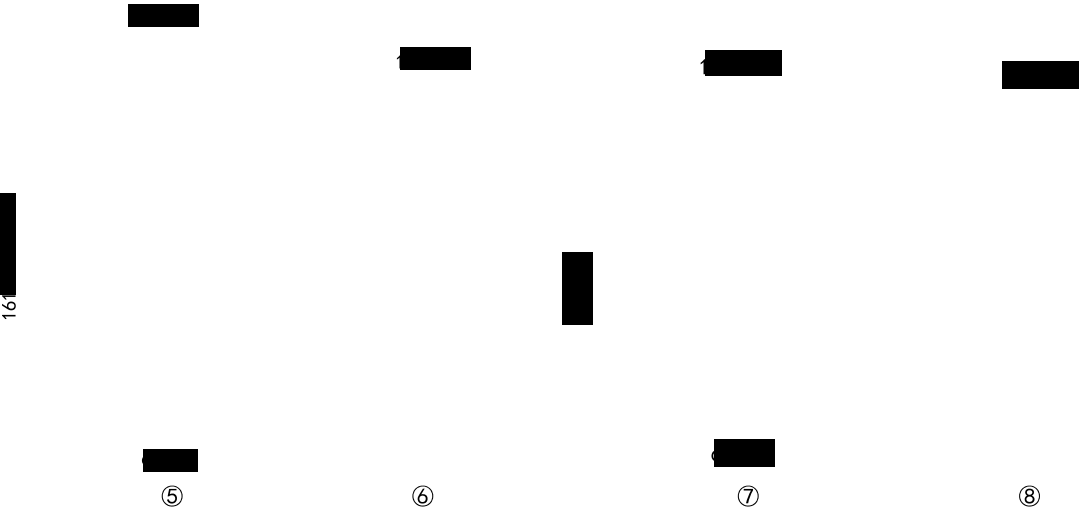
| Code and description |       |                          |                             |                                                               |                                 |          |   |         |                   | Remark            |                       |                      |
|----------------------|-------|--------------------------|-----------------------------|---------------------------------------------------------------|---------------------------------|----------|---|---------|-------------------|-------------------|-----------------------|----------------------|
| LFT2020              |       |                          |                             |                                                               |                                 |          |   |         |                   | Model             |                       |                      |
|                      | Range | -100kPa...0~10kPa...7MPa |                             |                                                               |                                 |          |   |         |                   | Measurement Range |                       |                      |
|                      |       | A4                       | A4= 4~20mA(2-wired)         |                                                               |                                 |          |   |         |                   |                   | Output Mode           |                      |
|                      |       | V05                      | V05= 0.5~4.5V(3-wired)      |                                                               |                                 |          |   |         |                   |                   |                       |                      |
|                      |       | V0                       | V0= 0~5V(3-wired)           |                                                               |                                 |          |   |         |                   |                   |                       |                      |
|                      |       | V10                      | V10= 0~10V(3-wired)         |                                                               |                                 |          |   |         |                   |                   |                       |                      |
|                      |       | RS                       | RS= RS-485 output (4-wired) |                                                               |                                 |          |   |         |                   |                   |                       |                      |
|                      |       | K                        | K = kPa                     |                                                               |                                 |          | P | P = psi |                   |                   | Measurement Unit      |                      |
|                      |       | B                        | B = Bar                     |                                                               |                                 |          | M | M = MPa |                   |                   |                       |                      |
|                      |       |                          | 0.5                         | 0.5 = 0.5%F.S                                                 |                                 |          |   |         |                   |                   | Accuracy              |                      |
|                      |       |                          | 1.0                         | 1.0 = 1.0%F.S                                                 |                                 |          |   |         |                   |                   |                       |                      |
|                      |       |                          | D1                          | D1 = DIN43650A(Big Hirschmann)                                |                                 |          |   |         |                   |                   | Electrical Connection |                      |
|                      |       |                          | M                           | M = M12(waterproof outlet)                                    |                                 |          |   |         |                   |                   |                       |                      |
|                      |       |                          | C3                          | C3=GX12 Three-core aviation connector                         |                                 |          |   |         |                   |                   |                       |                      |
|                      |       |                          | C4                          | C4=GX12 Four-core aviation connector                          |                                 |          |   |         |                   |                   |                       |                      |
|                      |       |                          | H                           | C4=M12 Four-core aviation connector                           |                                 |          |   |         |                   |                   |                       |                      |
|                      |       |                          | M20                         | M20 waterproof cable outlet (Explosion-Proof digital display) |                                 |          |   |         |                   |                   |                       |                      |
|                      |       |                          | K2                          | K2 = 50.5mm chunk connection                                  |                                 |          |   |         |                   |                   | Pressure Connection   |                      |
|                      |       |                          |                             | N                                                             | Without display(General type)   |          |   |         |                   |                   |                       | Digital Display Mode |
|                      |       |                          |                             | D1                                                            | General type digital display ㉔  |          |   |         |                   |                   |                       |                      |
|                      |       |                          |                             | D2                                                            | Explosion-proof digital display |          |   |         |                   |                   |                       |                      |
|                      |       |                          |                             |                                                               | 1.0                             | 1.0 = 1m |   |         |                   |                   | Cable Length          |                      |
|                      |       |                          |                             |                                                               | 2.0                             | 2.0 = 2m |   |         |                   |                   |                       |                      |
| LFT2020              | 0-10  | A4                       | B                           | 1.0                                                           | D1                              | K2       | N | 1.0     | Selection Example |                   |                       |                      |

Note④: When the selected type is conventional digital display sanitary flat film pressure transmitter, the cable outlet is only the big Hirschmann connector, and the power supply voltage is all 12~30VDC

DIMENSION (mm)



①Hirschmann Connector  
②High Temperature Model Hirschmann Connector  
③Digital Display Model Front View  
④Digital Display Model Side View



⑤Digital display/high temperature/explosion-proof Front view  
⑥Digital display/high temperature/explosion-proof side view  
⑦Digital display/explosion-proof Front view  
⑧Digital display/explosion-proof side view