

## LFT700 Series-Pressure Transmitter

### FEATURES

- High-precision pressure sensor using MEMS monocrystalline silicon
- Fast response time, high stability, measurement accuracy 0.075%FS
- Turndown ratio up to 100:1
- Provide standard HART bus communication mode, perfect self-diagnosis and remote communication function
- High brightness LCD display with backlight, reversible in-place display screen
- In-place zeroing function, in-place zero point, full point setting and adjustment function
- Convenient in-place current loop calibration function
- Various types of connection
- RS-485 and 4~20mA HART output mode



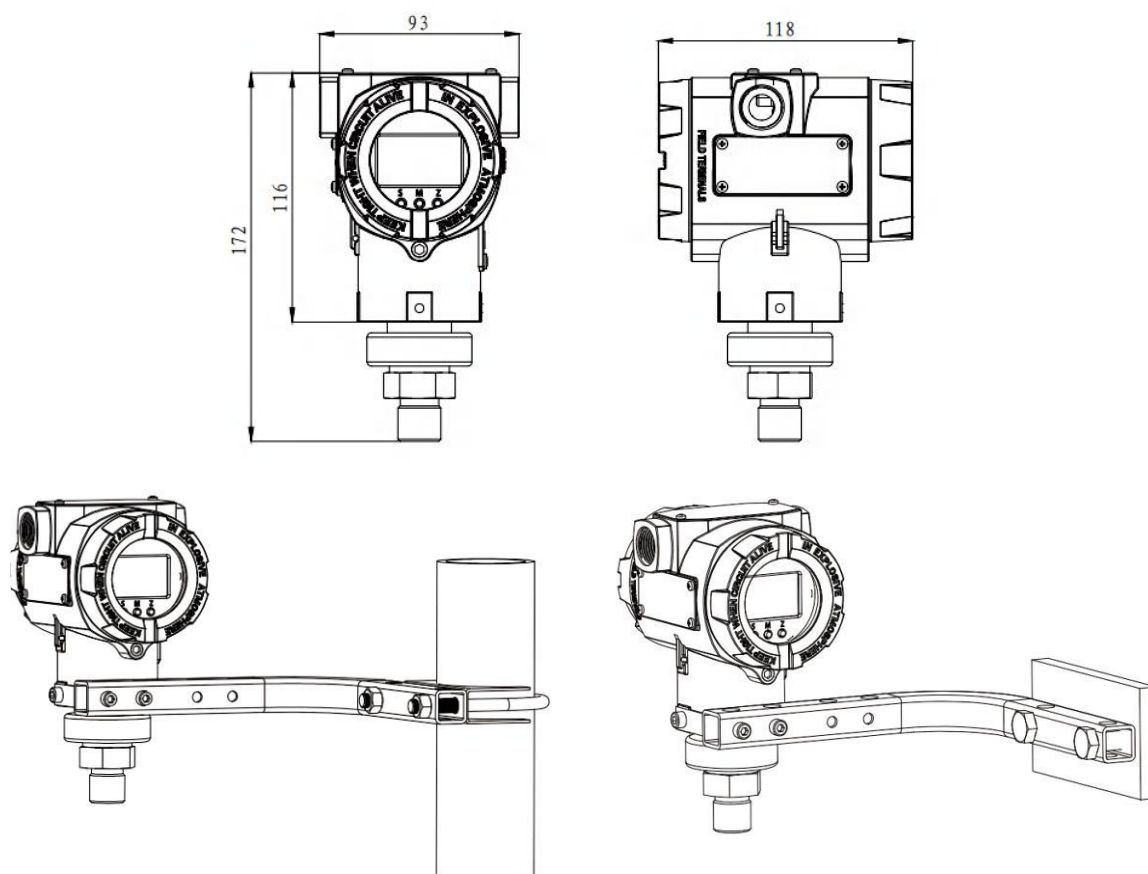
### DESCRIPTION

LFT700 pressure transmitter is used to measure the liquid level density and pressure of liquid, gas or steam, then convert it to 4~20mA DC output signal. The transmitter can be operated locally with three buttons, or remotely operated by a universal hand operator, configuration software, and mobile phone APP. It can perform display and configuration adjustments without affecting the output signal of 4~20mA DC .

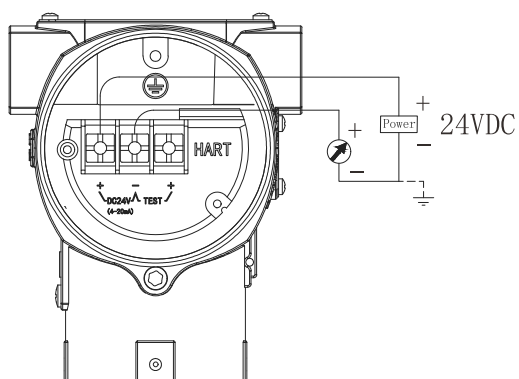
### SPECIFICATION

|                            |                                                                                         |             |          |
|----------------------------|-----------------------------------------------------------------------------------------|-------------|----------|
| Measurement range          | 6KPa、40KPa、250KPa、1MPa、3MPa、10MPa                                                       |             |          |
| Overload pressure          | 6KPa (400KPa)、40KPa (1MPa)、250KPa (4MPa)、1MPa (6MPa)、3MPa、10MPa                         |             |          |
| Accuracy                   | ±0.075%F.S                                                                              |             |          |
| Stability                  | ±0.2% of the upper range                                                                |             |          |
| Operating temperature      | -20~70℃ with display                                                                    |             |          |
| Storage temperature        | -40~85℃                                                                                 |             |          |
| Media to be measured       | Gas, liquid                                                                             |             |          |
| Diaphragm material         | 316L, Hastelloy C, tantalum,                                                            |             |          |
| Electrical Performance     | 2-wire                                                                                  |             | 4-wire   |
| Output Signal              | 4~20mA                                                                                  | 4~20mA HART | RS485    |
| Power supply               | 12~36VDC                                                                                | 12~36VDC    | 12~36VDC |
| Electrical connection      | M20*1.5 waterproof outlet wire, NPT1/2 waterproof outlet wire                           |             |          |
| Enclosure protection level | IP65                                                                                    |             |          |
| Pressure interface         | M20*1.5 male thread, NPT1/2 female thread, NPT1/2 male thread, G1/2 male thread, others |             |          |
| Pressure type              | Gauge pressure G                                                                        |             |          |
| Certification items        | ExdIICT6、CE                                                                             |             |          |

## DIMENSION (mm)



## ELECTRICAL CONNECTION



**Note:** The function of the shortcut interface is equivalent to the signal terminal.

## ORDER REF NO.

| Detailed Model Selection                                                                                      |                           |   |                                                             |              |                                                     |   |   |   |   |    |  |  | Provide fast delivery |
|---------------------------------------------------------------------------------------------------------------|---------------------------|---|-------------------------------------------------------------|--------------|-----------------------------------------------------|---|---|---|---|----|--|--|-----------------------|
| Model LFT700-G                                                                                                |                           |   |                                                             |              |                                                     |   |   |   |   |    |  |  |                       |
| 1                                                                                                             | Measuring range           | B | 0-200Pa~6KPa(0-20~600mmH <sub>2</sub> O)/(0-2~60mbar)       |              |                                                     |   |   |   |   |    |  |  | ※                     |
|                                                                                                               |                           | C | 0-400Pa~40KPa(0-40~4000mmH <sub>2</sub> O)/(0-4~400mbar)    |              |                                                     |   |   |   |   |    |  |  | ※                     |
|                                                                                                               |                           | D | 0-2.5KPa~250KPa(0-0.25~25mH <sub>2</sub> O)/(0-25~2500mbar) |              |                                                     |   |   |   |   |    |  |  | ※                     |
|                                                                                                               |                           | E | 0-10KPa~1MPa(0-1~100mH <sub>2</sub> O)/(0-0.1~10bar)        |              |                                                     |   |   |   |   |    |  |  | ※                     |
|                                                                                                               |                           | F | 0-30KPa~3MPa(0-3~300mH <sub>2</sub> O)/(0-0.3~30bar)        |              |                                                     |   |   |   |   |    |  |  | ※                     |
|                                                                                                               |                           | G | 0-100KPa~10MPa(0-10~1000mH <sub>2</sub> O)/(0-1~100bar)     |              |                                                     |   |   |   |   |    |  |  | △                     |
| 2                                                                                                             | Diaphragm material        | S | 316L                                                        |              |                                                     |   |   |   |   |    |  |  | ※                     |
|                                                                                                               |                           | H | Hastelloy C                                                 |              |                                                     |   |   |   |   |    |  |  |                       |
|                                                                                                               |                           | T | Tantalum                                                    |              |                                                     |   |   |   |   |    |  |  |                       |
| 3                                                                                                             | Filling liquid            |   | D                                                           | Silicone oil |                                                     |   |   |   |   |    |  |  | ※                     |
| 4                                                                                                             | Electrical connection     |   |                                                             | 1            | M20*1.5 female thread, PVC                          |   |   |   |   |    |  |  | ※                     |
|                                                                                                               |                           |   |                                                             | 2            | M20*1.5 female thread, stainless steel              |   |   |   |   |    |  |  | ※                     |
|                                                                                                               |                           |   |                                                             | 3            | 1/2NPT female thread, PVC                           |   |   |   |   |    |  |  |                       |
|                                                                                                               |                           |   |                                                             | 4            | 1/2NPT female thread, stainless steel               |   |   |   |   |    |  |  |                       |
| 5                                                                                                             | Output                    |   |                                                             | N            | 4~20mA                                              |   |   |   |   |    |  |  | ※                     |
|                                                                                                               |                           |   |                                                             | J            | 4~20mA+HART                                         |   |   |   |   |    |  |  | ※                     |
|                                                                                                               |                           |   |                                                             | F            | RS485                                               |   |   |   |   |    |  |  | ※                     |
| 6                                                                                                             | Process connection        |   |                                                             | M            | M20*1.5 male thread                                 |   |   |   |   |    |  |  | ※                     |
|                                                                                                               |                           |   |                                                             | G            | G1/2 male thread                                    |   |   |   |   |    |  |  | ※                     |
|                                                                                                               |                           |   |                                                             | N            | NPT1/2 male thread                                  |   |   |   |   |    |  |  | ※                     |
|                                                                                                               |                           |   |                                                             | A            | NPT1/2 male thread                                  |   |   |   |   |    |  |  | ※                     |
|                                                                                                               |                           |   |                                                             | Y            | others                                              |   |   |   |   |    |  |  | △                     |
| 7                                                                                                             | Mounting brackets         |   |                                                             | N            | No stand                                            |   |   |   |   |    |  |  | ※                     |
|                                                                                                               |                           |   |                                                             | B4           | Pipe bend bracket (carbon steel)                    |   |   |   |   |    |  |  | ※                     |
|                                                                                                               |                           |   |                                                             | B5           | Flat bend bracket (carbon steel)                    |   |   |   |   |    |  |  | ※                     |
| 8                                                                                                             | Explosion-proof treatment |   |                                                             | N            | Normal type                                         |   |   |   |   |    |  |  | ※                     |
|                                                                                                               |                           |   |                                                             | D            | Secondary Explosive ExdIICT6                        |   |   |   |   |    |  |  |                       |
| 9                                                                                                             | Display                   |   |                                                             | M5           | With display                                        |   |   |   |   |    |  |  | ※                     |
|                                                                                                               |                           |   |                                                             | N            | No display                                          |   |   |   |   |    |  |  | ※                     |
| 10                                                                                                            | Additional requirements   |   |                                                             | P            | M20*1.5 female thread with pressure welding head    |   |   |   |   |    |  |  |                       |
|                                                                                                               |                           |   |                                                             | N            | Connector material is 304, optional 316L            |   |   |   |   |    |  |  |                       |
|                                                                                                               |                           |   |                                                             | K            | Degreasing and cleaning treatment                   |   |   |   |   |    |  |  |                       |
|                                                                                                               |                           |   |                                                             | L            | Hanging number plate                                |   |   |   |   |    |  |  |                       |
|                                                                                                               |                           |   |                                                             | H            | Lightning protection (transient voltage resistance) |   |   |   |   |    |  |  |                       |
|                                                                                                               |                           |   |                                                             | E            | English nameplate                                   |   |   |   |   |    |  |  |                       |
|                                                                                                               |                           |   |                                                             | V2           | Two valve group                                     |   |   |   |   |    |  |  |                       |
| LFT720-G                                                                                                      |                           | C | S                                                           | D            | 1                                                   | J | M | N | N | M5 |  |  |                       |
| ※ means the delivery speed is fast, no ※ means the delivery time is longer, △ means it needs to be customized |                           |   |                                                             |              |                                                     |   |   |   |   |    |  |  |                       |