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## PRESSURE TRANSMITTER

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**NOTES**

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LFT700 GAUGE/ABSOLUTE PRESSURE SENSOR

LFT700 series gauge/absolute pressure transmitter is used to measure the liquid,density,pressure of liquid body, gas or steam,and then convert it into 4~20mADC HART current signal output.It can also communicate with HART375 or HART475 handmanipulator Parameter setting,process monitoring,etc.



■ STANDARD SPECIFICATIONS

(Calibration range is based on standard zero point, stainless steel 316L diaphragm, filling liquid is silicone oil)

1:PERFORMANCE SPECIFICATIONS

Reference accuracy of range adjustment (including linearity, regression, and repeatability from zero)±0.075% Soil TF>10(TF = maximum range/adjusting range) is: ±(0.0075×TF)%

The square root output accuracy is 1.5 times of the linear reference accuracy above.  
The maximum optional precision is 0.05%.

■ INFLUENCE OF AMBIENT TEMPERATURE

Range of code	-20℃~70℃Total influence quantity
B	±(0.20×TF+0.10)%×Span
other	±(0.10×TF+0.10)%×Span

■ LONG-TERM STABILITY

Range of code	Amount of influence
B	±0.2%×Span/1y
other	±0.1%×Span/1y

■ POWER INFLUENCE

±0.001%/10V(15~42V DC), negligible

2:FUNCTIONAL SPECIFICATION

■ RANGE(LFT700 GAGE PRESSURE)

Range/scope	Kpa	mbar
B	Range 0.6~6	6~60mbar
	Scope -6~6	-60~60mbar
C	Range 2~40	0.02~0.4
	Scope -40~40	-0.4~0.4
D	Range 0.4~40	0.025~2.5
	Scope -40~40	-1~2.5

Range/scope	Kpa	mbar
F	Range 30~3000	0.3~30
	Scope -100~3000	-1~30
G	Range 0.1~10MPa	1~100
	Scope -0.1~10MPa	-1~100
H	Range 0.20~20 MPa	2.0~200
	Scope -0.1~20 MPa	-1~200
I	Range 0.4~40 MPa	4~400
	Scope -0.1~40 MPa	-1~400
J	Range 0.6~60 MPa	6~600
	Scope -0.1~60 MPa	-1~600

■ RANGE(LFT700 ABSOLUTE PRESSURE)

Range/scope	Kpa	mbar
B	Range 2~40	0.02~0.4
	Scope 0~40	0~0.4
C	Range 2.5~250	0.025~2.5
	Scope 0~250	0~2.5
E	Range 30~3000	0.3~30
	Scope 0~3000	0~30

■ RANGE LIMIT

It can be adjusted arbitrarily within the upper and lower limits of the range.It is recommended to select the quanta code with the lowestquanta ratio possible to optimize the performance characteristics.

■ ZERO SETTING

One point and range can be adjusted to any value within the measurement range in the table,provided:the calibration range is greater than or equal to the minimum range.

■ IMPACT OF INSTALLATION POSITION

The change of installation position in the direction of the horizontal behavior of the membrane will not cause zero drift effect.If the change of installation position and the membrane is more than 90°,the measuring range C has zero drift effect in the range of < 0.25kpa, and the other ranges have zero influence in the range of < 0.15kpa,which can be corrected by adjusting zero.No range effect.

■ OUTPUT

2 wire system,4~20mADC,optional HART output digital communication,can choose linear or square root output.  
Output signal limit: Lmin = 3.8mA, Lmax = 20.8mA

■ ALARM CURRENT

Low alarm mode(minimum): 3.8 mA  
High alarm mode(maximum): 20.8mA  
No alarm mode(Hold): Maintain the high-alarm mode of effective current value before failure  
Alarm current standard setting : High-alarm mode

■ RESPONSE TIME

The damping constant of the amplifier component is 0.1s.  
Thesensor time constant is 0.1~16s,depending on the range and range ratio.The additional adjustable time constant is 0.1~60s.

■ Warm up time: < 15s

- STORAGE TEMPERATURE/TRANSPORT TEMPERATURE  
-50~85°C  
with Liquid crystal display: -40~85°C

- PRESSURE LIMIT  
From vacuum to maximum range.

■ OVERLOAD LIMIT

Range	6kPa (B)	40kPa (C)	250kPa (D)	3MPa (F)
Over load limit	200KPa	500KPa	2000KPa	7.5MPa
Range	10MPa (G)	20MPa (H)	40MPa (I)	60MPa (J)
Over load limit	20MPa	40MPa	60MPa	70MPa

■ ELECTROMAGNETIC COMPATIBILITY (EMC)

See the Electromagnetic Compatibility Schedule on the following page

3: INSTALLATION

POWER SUPPLY AND LOAD CONDITIONS

Power supply and load conditions

- Power supply voltage is 24V,  $R \leq (US-2V)/I_{max} K\Omega$   
Where  $I_{Max} = 23mA$

Maximum power supply voltage: 42VDC

Minimum power supply voltage: 12VDC, 15VDC (backlit LCD)

Digital communication load range: 230~600  $\Omega$

ELECTRICAL CONNECTION

M20x1.5 cable sealing buckle, wiring terminal is suitable for 0.5~2.5 mm<sup>2</sup> conductor

PROCESS CONNECTION

Standard process connection: NPT 1/2 internal thread, can be converted to NPT 1/2, G1/2 and M20x1.5 external thread, KF16 vacuum connection.

4: PHYSICAL SPECIFICATIONS

■ MATERIAL

Diaphragm: stainless steel 316L, Hastelloy C

Process connection: stainless steel 316L

Filling fluid: silicone oil

Transmitter case: aluminum alloy, coating

epoxy resin case sealing ring: NBR

Nameplate: 304 stainless steel

Weight: 1.6kg

(None: LCD display, mounting bracket, process connection)

Enclosure protection grade: IP67

■ ELECTROMAGNETIC COMPATIBILITY SCHEDULE

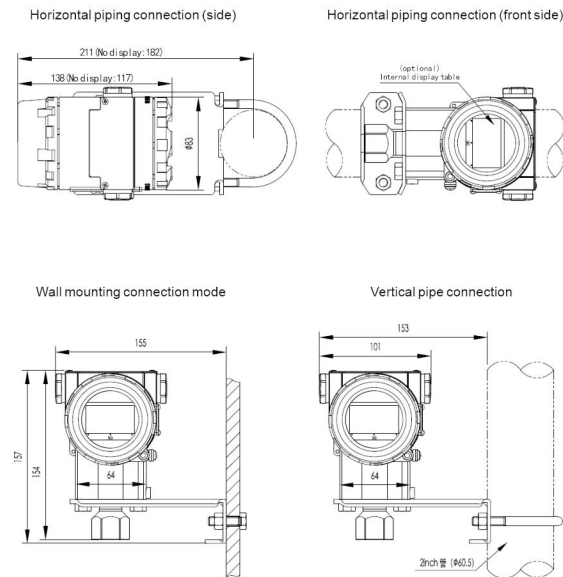
No.	Test project	Basic standard	Test conditions	Performance level
1	Radiant disturbance (enclosure)	GB/T 9254-2008 Table 5	30MHz~1000MHz	qualified
2	Current interference (DC power port)	GB/T 9254-2008 Table 1	0.15MHz~30MHz	qualified
3	Electrostatic discharge (ESD) immunity	GB/T 17626.2-2006	4kV (contact) 8kV (air)	B
4	Radio frequency electromagnetic field immunity	GB/T 17626.3-2006	10V/m (80MHz~1GHz)	A
5	Power frequency magnetic field immunity	GB/T 17626.8-2006	30A/m	A
6	Electric fast transient pulse group immunity	GB/T 17626.4-2008	2kV (5/50ns, 5kHz)	B
7	Surge immunity	GB/T 17626.5-2008	1kV (line to line) 2kV (line to ground) (1.2us/50us)	B
8	Conducted interference immunity for rf field induction	GB/T 17626.6-2008	3V (150kHz~80MHz)	A

Note:

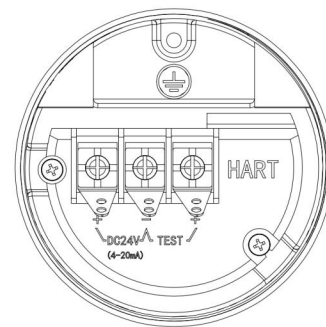
- (1)A Performance level indicates that the performance is normal within the limit of the technical specification during the test.
- (2)B Performance level indicates that normal performance functions or performance are temporarily reduced or lost within the limits of technical specifications during the test, but can be recovered by itself.

The actual health, storage and their data do not change.

■ DIMENSION IN: (MM)



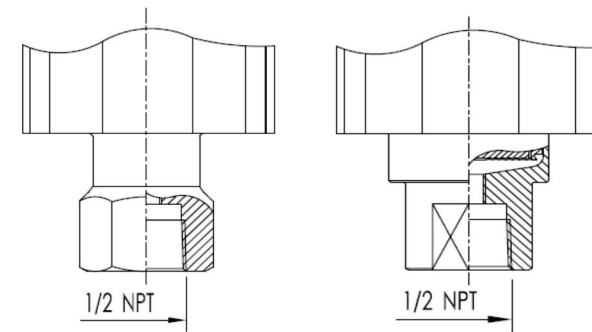
5: ELECTRICAL CONNECTION DIAGRAM



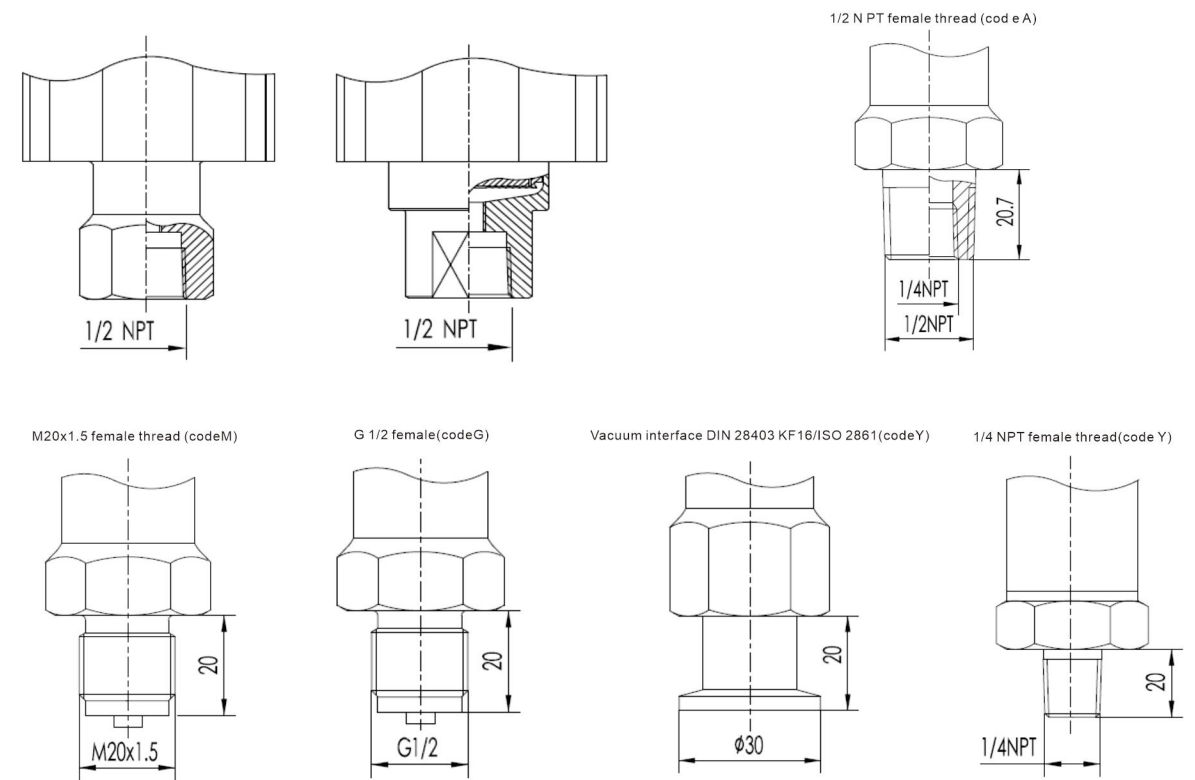
Terminal	
DC24V (4~20mA)	Power supply Power supply and output terminal Externa
TEST	Power meter test end (impedance should be less than 100 $\Omega$ )
	After large area

6: PROCESS CONNECTION DESCRIPTION (CODES)

6.1 STANDARD FORM (CODE N)



6.2 DERIVED INTERFACE MODE



7: LFT700 SERIES INTELLIGENT PRESSURE ABSOLUTE PRESSURE SENSOR MODEL AND SPECIFICATION CODE

LFT700 intelligent pressure transmitter selection spectrum

MODEL	SPECIFICATIONS AND CODE	INSTRUCTIONS	
		LFT700 intelligent pressure sensor	
LFT700		Range	Over pressure
		Range	B ..... 0-0.6KPa ~ 6KPa C ..... 0-2KPa ~ 40KPa D ..... 0-2.5KPa ~ 250KPa E ..... 0-10KPa ~ 1000KPa F ..... 0-30KPa ~ 3000KPa G ..... 0-0.1MPa ~ 10MPa H ..... 0-0.2MPa ~ 20MPa I ..... 0-0.4MPa ~ 40MPa J ..... 0-0.6MPa ~ 60MPa
Output	E ..... Standard intelligent (4-20)mA DC two-wire system +HART protocol digital communication		
Material	1 ..... 316L Stainless steel 2 ..... Hastelloy C		
Filling liquid	2 ..... Silicone oil 3 ..... Fluorine oil		
Pressure interface	N ..... 1/2NPT male thread A ..... 1/2NPT female thread G ..... G1/2 female thread M ..... M20x15 female thread Y ..... Special connection mode		
Electrical interface	N ..... 1/2NPT male thread M ..... M20x15 male thread		
Installation	B4 ..... Pipe support (carbon steel) B5 ..... Flat bracket (carbon steel) B6 ..... Pipe support (stainless steel) B7 ..... Flat bracket (stainless steel)		
Explosion-proof grade	N ..... General type (no explosion-proof) D ..... Flameproof Exd II CT6 I ..... Intrinsically safe explosion-proof Exia II Ct6		

MODE	SPECIFICATIONS AND CODE	INSTRUCTIONS	
LFT700		LFT700 intelligent pressure sensor	
Accuracy level	2 .....	0.2 level	
	5 .....	0.5 level	
	1 .....	0.1 level	
	7 .....	0.075 level	
	6 .....	0.065 level	
	8 .....	0.05 level	
	Option code	K .....	Degreasing process
		L .....	Hanging type number plate
F .....		Lightning protection (transient voltage resistance)	
H .....		φ14 welding pressure tube (stainless steel)	
E .....		English name plate	

LFT700 series intelligent absolute pressure sensor selection spectrum table

MODE	SPECIFICATIONS AND CODE	INSTRUCTIONS	
LFT700		LFT700 intelligent absolute pressure sensor	
Range	Range		
	C .....	0-2~40KPa	500KPa
	D .....	0-2.5~250KPa	2000KPa
	E .....	0-10~1000KPa	3.0MPa
	F .....	0-30~3000KPa	7.5MPa
Output	Standard intelligent(4-20)mA DC two-wire +HART protocol digital communication		
	E .....		
Material	1 .....	316 L stainless steel	
	2 .....	Hastelloy C	
Filling liquid	2 .....	Silicone oil	
	3 .....	Fluorine oil	
Pressure interface	N .....	1/2 NPT female thread	
	A .....	1/2 NPT male thread	
	G .....	G1/2 male thread	
	M .....	M20×1.5 male thread	
	Y .....	Special connection mode	
Electrical interface	N .....	1/2 NPT male thread	
	M .....	M20×1.5 male thread	
Mounting bracket	B4 .....	Steel tube support (carbon steel)	
	B5 .....	Flat bracket (carbon steel)	
	B6 .....	Flat bracket (stainless steel)	
	B7 .....	Pipe support (stainless steel)	
Explosion-proof grade	N .....	General type (no explosion-proof)	
	D .....	Flameproof Exd II CT6	
	I .....	Intrinsically safe Exiall II C16	
Precision grade	2 .....	0.2 level	
	5 .....	0.5 level	
	1 .....	0.1 level	
	7 .....	0.075 level	
	6 .....	0.065 level	
	8 .....	0.05 level	
Note	K .....	Degreasing process	
	L .....	Hanging type number plate	
	F .....	Lightning protection (transient voltage resistance)	
	H .....	φ14 welding pressure tube (stainless steel)	
	E .....	English name plate	

LFT710SERIES-DIFFERENTIAL PRESSURE TRANSMITTER

The LFT710 series differential pressure transformer is used to measure the liquid, density, pressure, and flow of liquid, gas or steam, and then convert it into a 4-20mADC HART current signal output. It can also communicate with HART375 or HART475 handheld communicator for parameter setting, process monitoring, etc.



■ STANDARD

(The range is adjusted based on the standard zero point, the stainless steel 316L diaphragm, the filling liquid is silicone oil)

■ 1:PERFORMANCE SPECIFICATIONS

Reference Accuracy of Range Adjustment (Includes linearity from zero, hysteresis and repeatability) ±0.075% If TF>10 (TF=maximum range/adjustment range) then:±(0.0075×TF)%  
Square root output accuracy is 1.5 times the linear reference accuracy above  
Optional high precision 0.05%.

■ AMBIENT TEMPERATURE EFFECT

Range code	-20°C~70°C total impact
A	±(0.20×TF+0.10)%×Span
B	±(0.10×TF+0.10)%×Span
C/D/E	±(0.075×TF+0.10)%×Span
Range code	-40°C~-20°C and 70°C~85°C total impact
A	±(0.20×TF+0.10)%×Span
B	±(0.10×TF+0.10)%×Span
C/D/E/F	±(0.075×TF+0.10)%×Span

■ STATIC PRESSURE EFFECT

Range code	Amount of influence
A	±(0.15%URL+0.10%Span)/4MPa
B	±(0.10%URL+0.075%vSpan)/16MPa
C/D/E/F	±(0.05%URL+0.05%Span)/16MPa

■ STATIC PRESSURE EFFECT

Range code	Amount of influence
A	±0.2%×Span/4MPa
B	±0.2%×Span/16MPa
C/D/E	±0.1%×Span/16MPa

■ LONG TERM STABILITY

Range code	Amount of influence
A	±0.2%×Span/1year
B	±0.2%×Span/1year
C/D/E/F	±0.1%×Span/1year

■ POWER IMPACT

±0.001%/10V (12~36V DC),negligible.

2:FUNCTIONAL SPECIFICATIONS

■ RANGE AND SCOPE

Range / scope	Kpa	mbar
A	Range 0.2~1	2~10
	Scope -1~1	-10~10
B	Range 0.2~6	2~60
	Scope -6~6	-60~60
C	Range 0.4~40	4~400
	Scope -40~40	-400~400
D	Range 2.5~250	25~2500
	Scope -250~250	-2500~2500
E	Range 10~1000	0.1~10bar
	Scope -500~1000	-5~10bar
F	Range 30~3000	0.3~30bar
	Scope -500~3000	-5~30bar

■ RANGE LIMIT

It can be adjusted arbitrarily within the upper and lower limits of the range. It is recommended to select a range code with the lowest possible turndown ratio to optimize performance characteristics.

■ ZERO SETTING

Zero and span can be adjusted to any value within the measurement range in the table, as long as: the calibration range ≥ the minimum range.

■ INSTALLATION LOCATION INFLUENCE

The change of the installation position parallel to the diaphragm surface will not cause zero drift effect. If the change of the installation position and the diaphragm surface exceeds 90°, the zero-optimization effect in the range of <0.4KPa will occur, which can be corrected by adjusting the zero adjustment. No range effect.

■ OUTPUT

2-wire system,4~20 mADC,optional HART outputdigital communication,Linear or square root output can be selected.  
Output signal limit:1min=3.8mA , lmax =20.8mA

■ ALARM CURRENT

Low report mode (minimum) : 3.8mA  
High alarm mode (maximum) : 20.8mA  
No report mode (hold): keep the effective current value before the fault  
Standard setting of alarm current: high alarm mode

■ CORRESPONDING TIME

The damping constant of the amplifier part is 0.1s; the time constant of the sensor is 0.1 to 16s, depending on the range and range ratio.Additional adjustable time constants are: 0.1 to 60s.  
The effect on nonlinear output, such as the square root function, depends on the function and can be calculated from it.

■ PREHEAT TIME

< 15s

■ AMBIENT TEMPERATURE

-40~85°C  
with liquid crystal display and fluororubber sealing ring:  
-20~70°C

■ STORAGE TEMPERATURE/TRANSPORT TEMPERATURE

-50~85°C; with LCD display-40~85°C

■ WORK PRESSURE

The rated working pressure is divided into three gears:  
16MPa, 25MPa and 40MPa

■ STATIC PRESSURE LIMIT

From the absolute pressure of 3.5KPa to the rated pressure, the protection pressure can be greater than 15 times of the rated pressure, and the two sides of the sub-transmitter are added at the same time.

■ ONE-WAY OVERLOAD LIMIT

One-way overload can reach rated pressure

■ ELECTROMAGNETIC COMPATIBILITY(EMC)

See "Electromagnetic Compatibility Schedule" on the next page

3:INSTALLATION

■ POWER AND LOAD CONDITIONS

The supply voltage is 24V,  $R \leq (U_s - 12V) / 1 \text{max} \Omega$  where  $1 \text{max} = 20.8 \text{mA}$   
Maximum supply voltage:42VDC  
Minimum supply voltage:12VDC, 15VDC(Backlit LCD)  
Digital communication load range 250~6000

■ ELECTRO CONNECTION

M20X1.5 cable glands, terminal blocks for 0.5~2.5mm<sup>2</sup>wire.

■ PROCESS CONNECTION

Both ends of the process connection flange have NPT1/4 and UNF7/16 internal threads.

4:PHYSICAL SPECIFICATIONS

■ MATERIAL

Measuring diaphragm: stainless steel 316L  
Diaphragm: stainless steel 316L, Han's alloy C  
Process Flange: Stainless Steel 304  
Nuts and bolts: stainless steel (A4)  
Filling Fluid: Silicone Oil  
Sealing ring: Butadiene rubber (NBR), fluorine rubber (FKM) polyvinyl fluoride (PTFE)  
Transmitter housing. Aluminum alloy material, epoxy resin sprayed on the surface Shell sealing  
Ring: nitrile rubber (NBR)  
Nameplate: Stainless Steel 304  
Weight: 3.5kg (None: LCD display, mounting bracket, process connection)  
Enclosure rating: IP67

■ELECTROMAGNETIC COMPATIBILITY SCHEDULE

No.	Test project	Basic standard	Test conditions	Performance level
1	Radiant disturbance (enclosure)	GB/T 9254-2008 Table5	30MHz~1000MHz	qualified
2	Current interference (DC power port)	GB/T 9254-2008 Table1	0.15MHz~30MHz	qualified
3	Electrostatic discharge (ESD) immunity	GB/T 17626.2-2006	4kV (contact) 8kV (air)	B
4	Radio frequency electromagnetic field immunity	GB/T 17626.3-2006	10V/m (80MHz~1GHz)	A
5	Power frequency magnetic field immunity	GB/T 17626.8-2006	30A/m	A
6	Electric fast transient pulse group immunity	GB/T 17626.4-2008	2kV (5/50ns, 5kHz)	B
7	Surge immunity	GB/T 17626.5-2008	1kV (line to line) 2kV (line to ground) (1.2us/50us)	B
8	Conducted interference immunity for rf field induction	GB/T 17626.6-2008	3V (150KHz~80MHz)	A

Note:

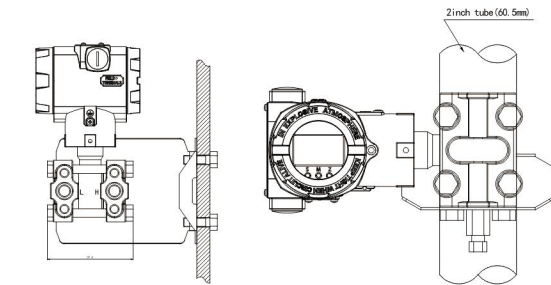
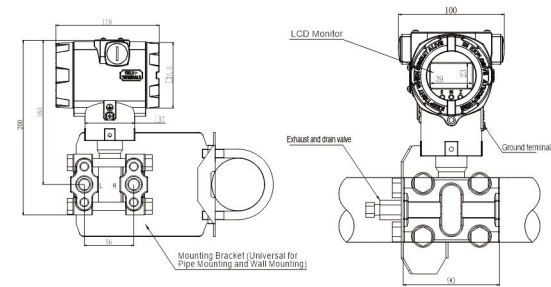
(1) A Performance level indicates that the performance is normal within the limit of the technical specification during the test.

(2) B Performance level indicates that normal performance functions or performance are temporarily reduced or lost within the limits of technical specifications during the test, but can be recovered by itself.

The actual health, storage and their data do not change.

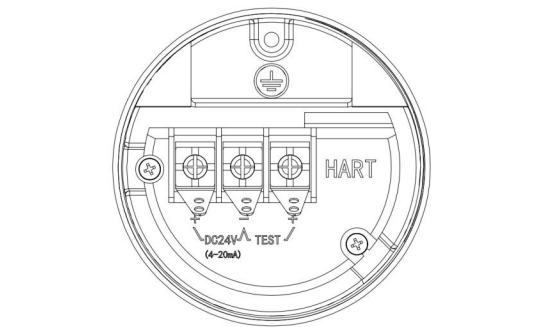
■ DIMENSION IN:(MM)

Horizontal piping connection method (side)      Horizontal piping connection method (front)



Wall mounting connection mode      Vertical piping connection method

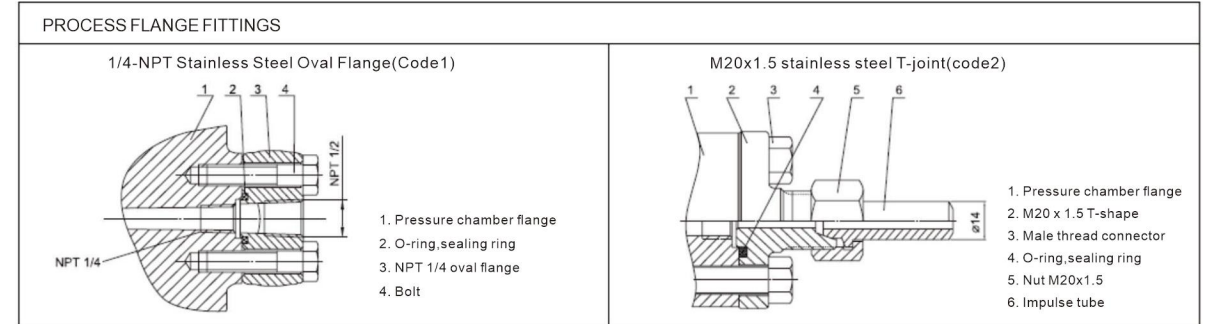
5:ELECTRICAL CONNECTION DIAGRAM



Terminal	
DC24V (4~20mA)	Power supply Power supply and output terminal External
TEST	Power meter test end (impedance should be less than 100Ω)
⏏	After large area

1/4-NPTSTAINLESS STEEL OVAL FLANGE(CODE1)

6:PROCESS CONNECTION INSTRUCTIONS



7:LFT710S ERIES INTELLIGENT DIFFERENTIAL PRESSURE TRANSMITTER MODEL AND SPECIFICATION CODE

MODEL	SPECIFICATIONS AND CODE	INSTRUCTIONS
LFT710-DP		Smart Differential Pressure Transmitter
Range	B .....	0.2~6 KPa
	C .....	1.0~40KPa
	D .....	2.5~250KPa
	E .....	10~1000KPa
	F .....	30~3000KPa
	Output	E .....
J .....		Standard smart plov(4~20)mADC two-wire system +HART protocol digital communication +square root signal output
Material	22 .....	316L Stainless steel
	23 .....	Hastelloy C
	24 .....	Monel
	25 .....	Tantalum
Filling liquid	D .....	Silicone oil
	F .....	Fluorine oil
Electrical connection	M .....	1/2NPT male thread
	N .....	M20×15 male thread
Relief valve position	A .....	Without relief valve(with plug)
	B .....	Process flange side top
	C .....	Process flange side lower part
Mounting brackets	N .....	Without mounting bracket
	B1 .....	Tube Bending Bracket (Carbon Steel)
	B2 .....	Disc Bending Bracket (Carbon Steel)
	B3 .....	Tube Flat Bracket
	B5 .....	Tube Bending Bracket (Stainless Steel)
	B6 .....	IDisc Mounted Bending Bracket (Stainless Steel)
	B7 .....	I Tube Mounted Flat Bracket (Stainless Steel)
Static pressure	A .....	10MPa
	B .....	16Mpa
	C .....	25MPa
Explosion-proof grade	N .....	General type (no explosion-proof)
	D .....	Flameproof Exd II CT6
	I .....	Intrinsically safe explosion-proof Exia II Ci6
Accuracy	2 .....	0.2 level
	5 .....	0.5 level
	7 .....	0.075 level
	6 .....	0.065 level
	8 .....	0.05 level

Option code	Option
N	With "waist" shaped fitting NPT1/2 taper pipe female thread
J	With "D" shaped joint M20 × 1.5 male thread and rear welded impulse pipe (stainless steel)
F	With "waist" shaped joint plus NPT1/2 pressure transition head and rear welded pressure pipe (stainless steel)
P	No process fitting (1/4 NPT female thread on chamber)
K	Degreasing cleaning treatment
L	Hanging number plate
H	Lightning protection (withstand transient voltage)
E	English nameplate
V3	Three valve block
V5	Five valve block
M5	LCD
N	No header

LFT720 FLANGE MOUNT TRANSMITTER



1: APPLICATION

The membrane box of the flange-mounted transmitter is used to prevent the medium in the pipeline from directly entering the pressure sensor assembly of the differential pressure transmitter.

The filling liquid such as silicone oil is used to transmit the pressure between it and the transmitter. LFT720 liquid level transmitter is used to measure the liquid level, density, pressure, and flow of liquid, gas or steam, and then convert it into 4~20mADC HART current signal output. Also available with HART 375 or HART475 Communicators communicate with each other for parameter setting, process monitoring, etc.

The measuring range of LFT720 series liquid level transmitter (when not migrated) is 0-1kPa~3000KPa, and the rated pressure of the liquid level flange is: 1.6/4MPa, 6.4MPa, 10MPa, 150psi, 300psi or 600psi

2: WORKING PRINCIPLE AND STRUCTURE

LFT720 flange mount transmitter is structurally composed of the LFT720 series Differential pressure transmitter and liquid flange installed by welding. Its working principle is the same as that of LFT710 series differential pressure transmitter (see technical specification for LFT710 series differential pressure converter), but the pressure transmission path of positive pressure side is slightly different: the pressure acting on the high pressure side first passes through the diaphragm and filling liquid on the liquid level flange, then passes through the transmitter body, and finally reaches the high pressure side of the measurement sensor.

3: ENTER

■ MEASURED PARAMETERS

Differential pressure, liquid level

■ MEASURING RANGE

Lower limit: 100%URL (Continuous adjustable)  
Lower limit: to +100%URL (ontinuous adjustable)

■ RANGE

Table1 The comparison table of the relationship between the range code and the range

Range Code	Min Range	Max Range	Preset pressure (Max)
B	1kPa	40kPa	Pressure rating of the level flange
C	2.5kPa	250kPa	
D	10kPa	1000kPa	
E	30KPa	3000KPa	

Table2 Comparison table of the relationship between the liquid level flange and the minimum range

Liquid level flange	Nominal diameter	Minimum range
Flat flange	DN 50/2"	10kPa
	DN 80/3"	1kPa
	DN 4"	1kPa
Insert Short Form	DN 50/2"	16kPa
	DN 80/2"	1kPa
	DN 4"	1kPa

The minimum span of a flange-mounted transmitter shall be the greater of the minimum spans in Table1 and Table2. The adjusted range should not be less than the minimum range. The maximum range of the night level transmitter should be the minimum value of the maximum range of the transmitter body and the rated pressure of the liquid level flange.

4: OUTPUT

■ OUTPUT SIGNAL

Two Wired, 4~20mADC HART output, Digital communications, HART protocol is loaded on 4~20mADC signal.  
Output signal limit: I min=3.8mA, I max=20.8mA

■ ALARM CURRENT (MODE CAN BE SET)

Low alarm mode (minimum): 3.8 mA  
High alarm mode (maximum): 20.8 mA  
No report mode (hold): keep the effective current value before the fault  
Standard setting of alarm current: high alarm mode

5: RESPONSE TIME

The damping constant of the amplifier part is 0.1 s; the time constant of the sensor and the liquid level flange is 0.2 to 2 s, depending on the range and range ratio. The additional adjustable time constant is: 0.1~60S.

6: GENERAL CONDITIONS

6.1 INSTALLATION CONDITIONS

The transmitter can be directly fixed in any position by means of the liquid level flange. The best situation is to have the process flange axis vertical, the positional deviation will produce a calibrated zero offset. The electronic case can be rotated up to 360°, and the set screw can fix it in any position.

6.2 ENVIRONMENTAL CONDITIONS

■ AMBIENT TEMPERATURE

Lowest: Depending on filling fluid  
Highest: 85°C  
With liquid crystal display and Fluororubber sealing ring- 20~70°C

■ STORAGE TEMPERATURE/TRANSPORTATION TEMPERATURE

Minimum: Depends on filling fluid  
Maximum: 85°C

■ RELATIVE HUMIDITY

0-100%

■ IMPACT RESISTANCE

Acceleration: 50g Duration: 11ms

■ ANTI-VIBRATION

2g to 500Hz

■ ELECTROMAGNETIC COMPATIBILITY (EMC)

See Table 3 "Electromagnetic Compatibility Schedule" on the next page

6.3 PROCESS MEDIUM LIMIT

■ MEDIUM TEMPERATURE LIMIT

-40~180°C

■ TRANSMITTER BODY PRESSURE LIMIT

From 3.5kPa absolute pressure to rated pressure, the protection pressure can be greater than 15 times of the rated pressure, and doubled on both sides of the transmitter

■ RATED PRESSURE OF LEVEL FLANGE

ANSI standard: 150psi~600psi

DIN standard: PN 1.6MPa~ PN 10MPa

■ ONE-WAY OVERLOAD LIMIT

The low pressure side is the rated pressure of the transmitter body, the high pressure side is the rated pressure of the liquid level flange, and there may be a correctable zero drift.

■ WEIGHT

DN 50/2" About 7~10kg

DN 80/3" About 8~11kg

DN 4" About 9~12kg

■ EXPLOSION-PROOF PERFORMANCE

NEPS I Explosion-proof license: Ex dIIC T6

NEPS II Intrinsically Safe Approval: Ex iaIIC T6

The allowable temperature is: -40°C~70°C

■ 6.4 POWER AND LOAD CONDITIONS

Voltage: 24V

R ≤ (Us - 12V) / I max kΩ

I max = 20.8 mA

Max Voltage: 42VDC

Min Voltage: 12VDC, 15VDC (Backlit LCD) Digital communication load range: 230~600Ω

■ MATERIAL

Measuring diaphragm: stainless steel 316L  
Diaphragm: stainless steel 316L, Hastelloy C, tantalum diaphragm, FEP, PFA, PTFE coating  
Process Flange: Stainless Steel 304  
Filling fluid: silicone oil, vegetable oil  
Sealing ring: Nitrile rubber (NBR), fluorine rubber (FKM), Polytetrafluoroethylene (PTFE)  
Transmitter housing: Aluminum alloy material, epoxy resin coating on the surface Housing sealing ring: Nitrile butadiene rubber (NBR)  
Nameplate: stainless steel 304

■ ELECTRICAL CONNECTIONS

M20X1.5 cable glands, terminal blocks for 0.5~2.5mm² wire

■ PROCESS CONNECTION

The low pressure side of the transmitter has UNF7/16" internal thread. Liquid level on the high. Pressure side of the transmitter. Flanges conform to ANSI or DIN standards. It can be installed directly, refer to the dimension drawing.

■ ENCLOSURE RATING

Ip67

■ ELECTROMAGNETIC COMPATIBILITY SCHEDULE

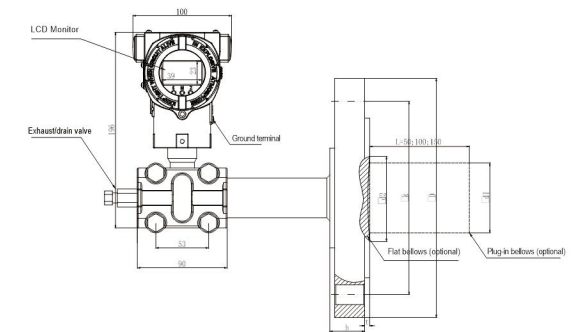
No.	Test project	Basic standard	Test conditions	Performance level
1	Radiant disturbance (enclosure)	GB/T 9254-2008 Table 5	30MHz~1000MHz	qualified
2	Current interference (DC power port)	GB/T 9254-2008 Table 1	0.15MHz~30MHz	qualified
3	Electrostatic discharge (ESD) immunity	GB/T 17626.2-2006	4kV (contact) 8kV (air)	B
4	Radio frequency electromagnetic field immunity	GB/T 17626.3-2006	10V/m (80MHz~1GHz)	A
5	Power frequency magnetic field immunity	GB/T 17626.8-2006	30A/m	A
6	Electric fast transient pulse group immunity	GB/T 17626.4-2008	2kV (5/50ns, 5kHz)	B
7	Surge immunity	GB/T 17626.5-2008	1kV (line to line) 2kV (line to ground) (1.2us/50us)	B
8	Conducted interference immunity for rf field induction	GB/T 17626.6-2008	3V (150KHz~80MHz)	A

Note:

(1) A Performance level indicates that the performance is normal within the limit of the technical specification during the test.

(2) B Performance level indicates that normal performance functions or performance are temporarily reduced or lost within the limits of technical specifications during the test, but can be recovered by itself. Actual operating status, storage and its associated data do not change. The actual health, storage and their data do not change.

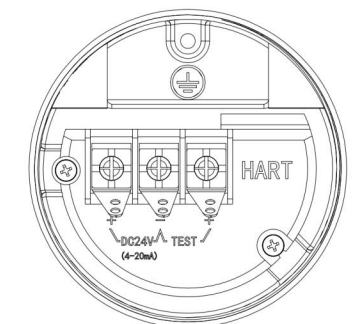
■ DIMENSION IN: (MM)



■ LIQUID LEVEL FLANGE STRUCTURE SIZE TABLE

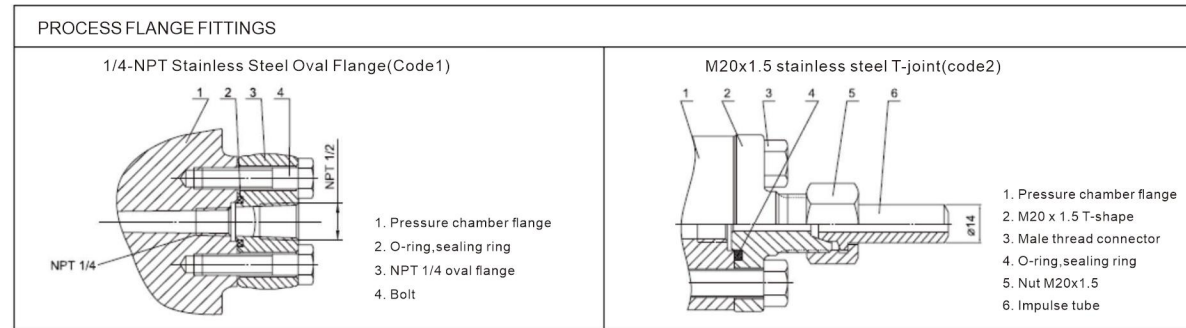
Test items	Test items	ΦD	ΦK	Φd1 plate-in	Φd2 flat	Φd3	t	b	Resist red bolt Qty	Thread
DN 50 (Sealing surface: DN2526E) (Flange: DN2501)	PN 1.6/4MPa	165	125	48.3	57	102	3 <sup>15/16</sup>	20	4	M16
	PN 6.4MPa	18	135	48.3	57	102	3 <sup>15/16</sup>	26	4	M20
	PN 10MPa	195	145	48.3	57	102	3 <sup>15/16</sup>	28	4	M20
DN 80 (Sealing surface: DN2526E) (Flange: DN2501)	PN 1.6/4MPa	200	160	76	75	138	3 <sup>15/16</sup>	24	8	M16
	PN 6.4MPa	215	170	76	75	138	3 <sup>15/16</sup>	28	8	M20
	PN 10MPa	230	180	76	75	138	3 <sup>15/16</sup>	32	8	M24
DN 2" (ANSI B 16.5 RF)	150psi	152.4	120.6	48.3	57	92.1	3 <sup>15/16</sup>	17.4	4	M18
	300psi	165.1	127.0	48.3	57	92.1	3 <sup>15/16</sup>	20.6	8	M18
	600psi	165.1	127.0	48.3	57	92.1	6.35	31.75	8	M18
DN 3" (ANSI B 16.5 RF)	150psi	190.5	152.4	76	75	127	3 <sup>15/16</sup>	22.2	4	M16
	300psi	209.5	168.3	76	75	127	3 <sup>15/16</sup>	27.0	8	M20
	600psi	209.5	168.3	76	75	127	6.35	38.05	8	M20
DN 4" (ANSI B 16.5 RF)	150psi	229	191	89	89	157	3 <sup>15/16</sup>	30	8	M18
	300psi	255	200	89	89	157	3 <sup>15/16</sup>	32	8	M18

5: ELECTRICAL CONNECTION DIAGRAM



Terminal	
DC24V (4~20mA)	Power supply Power supply and output terminal Externa
TEST	Power meter test end (impedance should be less than 100 Ω)
⏏	After large area

8:LOW VOLTAGE SIDE PROCESS CONNECTION INSTRUCTIONS



9:LF830-LT FLANGE MOUNT VARIATOR MODEL AND SPECIFICATION CODES

Model	Specification code	Description	
LFT720		LFT720 Flange Mount Transmitter	
Measuring range	B .....	1.0~40Kpa	
	C .....	2.5~250Kpa	
	D .....	10~1000Kpa	
	E .....	30~3000Kpa	
Output	E .....	Standard Smart(4-20) mA DCTwo-wire system + HART digital communication	
	J .....	Standard Smart(4-20) mA DCTwo-wire system + HART protocol digital communication + square root signal output	
Flange standard	D .....	HG/T20592-2009 (DIN)	
	A .....	HG/T20615-2009 (ANSI)	
Flange size	Flange size(DIN)		Flange size(ANSI)
	A .....	DN25	1 inch
	B .....	DN40	1.5 inch
	C .....	DN50	2 inch
	D .....	DN80	3 inch
	E .....	DN100	4 inch
Flange grade	Flange grade(DIN)		Flange grade(ANSI)
	A .....	PN10 / PN16	150
	B .....	PN25 / PN40	300
	C .....	PN2.5 / PN6	
	T .....	Special size	
Insert cartridge	0 .....	Flat flange	
	1 .....	50mm	
	2 .....	100mm	
	3 .....	150mm	
	T .....	Special size	
Diaphragm material	A .....	316 Stainless steel	
	B .....	Hastelloy C	
	C .....	Tantalum	
	F .....	F46 Lamination	
	P .....	PFA coating	
Filling Fluid (Temperature Range)	Filling fluid		溫度極限
	D .....	Ordinary silicone oil DC200	-45~205°C
	C .....	High temperature silicone oil DC704	0~315°C
	F .....	Fluorine oil	-18~204°C
Electrical Interface	M .....	M20×1.5 Internal thread	
	N .....	1/2NPT Internal thread	
Explosion-proof grade	N .....	Ordinary type (no explosion-proof)	
	D .....	Flameproofbd Exd II CT6	
	I .....	Intrinsically safe Exia II CT6	
Remark	A .....	F46 Lamination	
	B .....	PFA coating	
	C .....	Stainless Steel Flush Connection Ring Chamber	
	K .....	Degreasing treatment	
	L .....	Hanging number plate	
	H .....	Lightning protection (withstand transient voltage)	
	E .....	English nameplate	
	M5 .....	LCD liquid crystal display	
N .....	No header		

LFT720-FLANGE TYPE REMOTE PRESSURE TRANSMITTER



1:APPLICATION

The diaphragm of the flange type remote pressure transmitter is used to prevent the medium in the pipeline from directly entering the pressure sensor assembly of the differential pressure transmitter. It is filled with silicone oil and the like between it and the transmitter to transmit pressure.

LFT720 flange type remote pressure transmitter is used to measure the liquid level, density, pressure, and flow of liquid, gas or steam, and then convert it into 4~20mADC HART current signal output. It can also communicate with the RST375 handheld terminal or RSM100Modem, through which parameter setting, process monitoring, etc. can be performed. The measuring range of the LF830 flange type remote pressure transmitter (when not migrated) is 0-1kPa~10MPa, and the rated pressures of the remote flange are: 1.6/4MPa, 6.4MPa, 10MPa, 150psi, 300psi or 600psi.

2:WORKING PRINCIPLE AND STRUCTURE

The flange type remote pressure transmitter is composed of LFT710 series differential pressure transmitter and remote flange with capillary tube installed by welding. Its working principle is the same as that of LFT710 series differential pressure transmitter (see LFT710 series differential pressure transmitter technical specification), but the pressure transmission path is slightly different: the pressure acting on the remote flange side first passes through the remote flange. The diaphragm and filling liquid, then pass through the capillary, and finally reach the corresponding positive and negative sides of the measuring sensor.

3:INPUT

MEASUREMENT PARAMETERS

differential pressure, liquid level.

MEASURING RANGE

Lower limit: from 100% URL (continuously adjustable)  
Lower limit: to +100% URL (continuously adjustable)

RANGE

Table 1 The comparison table of the relationship between the range code and the range range

Range code	Minimum range	Maximum range	Rated pressure (max)
B	1 kPa	40 kPa	Rated voltage of remote flange
C	2.5 kPa	250 kPa	
D	10 kPa	1000 kPa	

Table 2 Flange type remote of distance flange and minimum range

Flange type remote	Nominal diameter	Minimum range	
		Single transmission	Bilateral transmission
Flat type	DN 50/2"	10kPa	10kPa
	DN 80/3"	6kPa	1kPa
	DN 4"	6kPa	1kPa
Plug-in type	DN 50/2"	16kPa	16kPa
	DN 80/2"	6kPa	1kPa
	DN 4"	6kPa	1kPa

The minimum range of the remote transmitter should be the larger value of the minimum range in Table 1 and Table 2. The adjusted range should not be less than the minimum range. The maximum range of the remote transmitter should be the minimum value of the maximum range of the transmitter body and the rated pressure of the liquid level flange.

4:OUTPUT

OUTPUT SIGNAL

2 wire system, 4~20mA DC HART output, digital communication, HART protocol loaded on 4~20mADC signal. Output signal limit: I min = 3.8mA, I Max = 20.8mA

ALARM CURRENT (MODE CAN BE SET)

Low alarm mode (minimum): 3.8mA

High alarm mode (maximum): 20.8 mA

No alarm mode (hold): keep the effective current value before the fault Standard setting of alarm current: high alarm mode.

5:RESPONSE TIME

The damping constant of the amplifier part is 0.1s; the time constant of the sensor and the flange is 0.2~2s, depending on the range and turndown ratio. Additional adjustable time constants are: 0.1 to 60s.

6:GENERAL CONDITION

6.1 INSTALLATION CONDITIONS

The transmitter body can be directly fixed in any position. The best state is to keep the process flange shaft in a vertical state, and the positional deviation will produce a zero offset that can be corrected. The electronic case can rotate up to 360°, the set screw can be fixed in any position.

The remote flange is connected with the matching flange that conforms to standard. The matching flange should be equipped with soft gaskets and fix the ANSI/DIN standard. The matching flange should be equipped with soft gaskets and fixed bolts and nuts (users can choose the installation bolts and nuts). For double flanged remote transmitters, the capillary part and the remote flange should only be installed in the same ambient temperature. The minimum bending radius of the capillary battalion is 75mm, and winding is strictly prohibited!

6.2 ENVIRONMENT CONDITIONS

AMBIENT TEMPERATURE

Minimum: depends on filling fluid

Highest: 85°C

With liquid crystal display and fluorine rubber seal 20~70°C

STORAGE TEMPERATURE/TRANSPORTATION TEMPERATURE

Minimum: depends on filling fluid

Highest: 85°C

RELATIVE HUMIDITY

0~100%

■ IMPACT RESISTANCE

Acceleration: 50g  
Continue to break: 11ms

■ ANTI-VIBRATION

2g to 500Hz

■ ELECTROMAGNETIC COMPATIBILITY (EMC)

See "Electromagnetic Compatibility Schedule" on the third page

6.3 PROCESS MEDIUM LIMIT

■ MEDIUM TEMPERATURE LIMIT

-40~350°C

Table 3 Relationship between filling fluid, working temperature and minimum working static pressure

Filling liquid	Silicone oil (S)	High temperature silicone oil (H)	Fluorine oil (U)
Density 25°C	960kg/m <sup>3</sup>	980kg/m <sup>3</sup>	1020kg/m <sup>3</sup>
Operating temperature range	-40~200°C	-18~204°C	-10~400°C

Temperature	Working static pressure range (kPa Absolute pressure)			
20°C	>10	>10	>10	>25
100°C	>25	>25	>25	>50
150°C	>50	>50	>50	>75
200°C	>75	>75	>75	>100
250°C	>100	>100	>100	>100
350°C	>100	>100	>100	>100

■ TRANSMITTER BODY PRESSURE LIMIT

From the absolute pressure of 3.5kPa to the rated pressure, the protection pressure can be greater than 15 times of the rated pressure, and it is added to both sides of the transmitter at the same time.

■ RATED PRESSURE OF REMOTE FLANGE

ANSI standard: 150psi ~ 600psi  
DIN standard: PN 16MPa~PN 10MPa

■ ONE-WAY OVERLOAD LIMIT

The low pressure side is the rated pressure of the transmitter body, the high pressure side is the rated pressure of the remote flange, and there may be a correctable zero drift.

■ WEIGHT

Unilateral remote transmission is DN 50/2", about 7~10kg, DN 80/3" is about 8~11kg, DN 4" is about 9~12kg;  
Bilateral remote transmission is DN 50/2" about 10~16.5kg, DN 80/3" is about 12~18kg, DN 4" is about 14~21kg.

■ EXPLOSION-PROOF PERFORMANCE

NEPSI flameproof license: Ex dIIC T6  
NEPSI Intrinsically Safe Approval: Ex iaIIC T6  
The allowable temperature is: -40°C~65°C

6.4 POWER SUPPLY AND LOAD CONDITIONS

Power supply voltage is 24V  
R≤(Us-12V)/Imax kΩ

where I max=20.8 mA  
Maximum supply voltage: 42VDC  
Minimum electricity; original voltage: 12VDC, 15VDC (backlit LCD display)  
Digital communication load range: 250~6000Ω

■ MATERIAL

Measuring diaphragm: Stainless Steel 316L  
Diaphragm: stainless steel 316L, Hastelloy C, button  
Process flange Stainless steel 304  
Filling fluid Silicone oil, High i.illi silicone oil, Ultra high i.illi silicone oil,  
Vegetable oil Sealing ring: Butadiene rubber (NBR), Fluorine rubber (FKM), Polyvinyl fluoride (PTFE)  
Transmitter shell: aluminum alloy, epoxy  
Resin shell outer ring: Butyl wax rubber (NBR)  
Brand: 304 stainless steel

■ ELECTRICAL CONNECTION

M20X1.5 cable glands, terminals are suitable for wires of 0.5~2.5mm<sup>2</sup>

■ PROCESS CONNECTION

NPT 1/4 and UNF7/16 female threads are available on the low pressure side of the transmitter. The liquid level flange on the high pressure side of the transmitter conforms to ANSI standard or DIN standard and can be installed directly.

■ ENCLOSURE PROTECTION CLASS

IP67

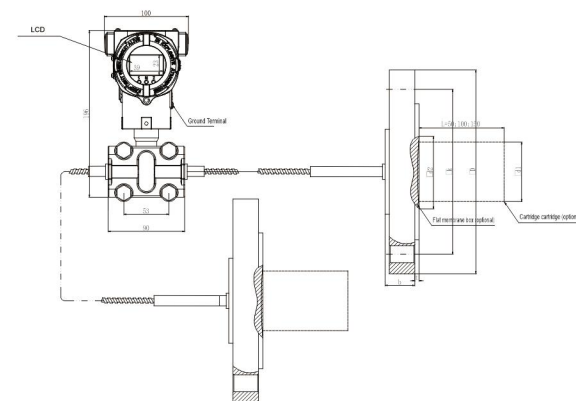
■ ELECTROMAGNETIC COMPATIBILITY SCHEDULE

No.	Test project	Basic standard	Test conditions	Performance level
1	Radiant disturbance (enclosure)	GB/T 9254-2008 Table 5	30MHz~1000MHz	qualified
2	Current interference (DC power port)	GB/T 9254-2008 Table 1	0.15MHz~30MHz	qualified
3	Electrostatic discharge (ESD) immunity	GB/T 17626.2-2006	4kV (contact) 8kV (air)	B
4	Radio frequency electromagnetic field immunity	GB/T 17626.3-2006	10V/m (80MHz~1GHz)	A
5	Power frequency magnetic field immunity	GB/T 17626.8-2006	30A/m	A
6	Electric fast transient pulse group immunity	GB/T 17626.4-2008	2kV (5/50ns, 5kHz)	B
7	Surge immunity	GB/T 17626.5-2008	1kV (line to line) 2kV (line to ground) (1.2us/50us)	B
8	Conducted interference immunity for rf field induction	GB/T 17626.6-2008	3V (150KHz~80MHz)	A

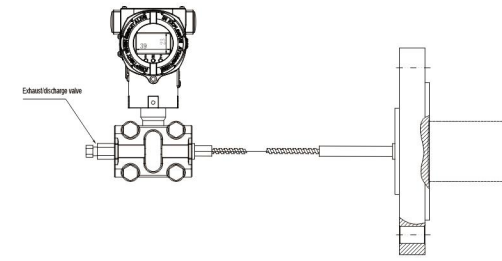
Note:  
(1) A Performance level indicates that the performance is normal within the limit of the technical specification during the test.  
(2) B Performance level indicates that normal performance functions or performance are temporarily reduced or lost within the limits of technical specifications during the test, but can be recovered by itself.  
The actual health, storage and their data do not change.

7: DIMENSION IN: (MM)

■ FIGURE 1 DIAGRAM OF BASIC TYPE BILATERAL DIFFERENTIAL PRESSURE REMOTE TRANSMISSION SEALING DEVICE

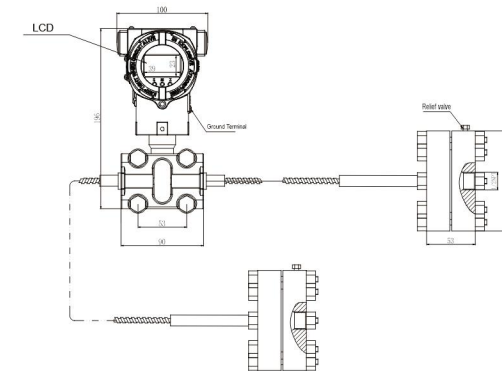


■ FIGURE 2 BASIC UNILATERAL DIFFERENTIAL PRESSURE REMOTE SEALING DEVICE DIAGRAM

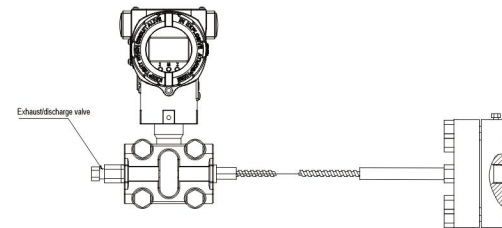


Note:  
(1) The unilateral basic type high voltage remote seal can be installed on the high voltage side of the transformer body or on the low voltage side of the transformer.  
(2) The heavy-duty device body of the unilateral furry edge basic type cover E remote transmission sealing device is the same as the LFT720-remote transmission flange transmitter.

■ FIGURE 3 DIAGRAM OF DOUBLE-SIDED SCREWMOUNTED REMOTE FLANGE SEALING DEVICE



■ FIGURE 4 SINGLE-SIDE THREAD-MOUNTED REMOTE FLANGE SEALING DEVICE

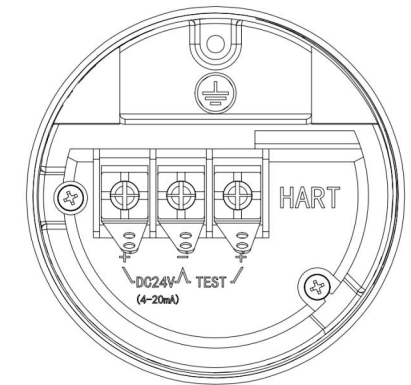


Note:  
(1) The single-side thread mounting flange sealing device can be installed on the high pressure side of the transmitter body or on the low pressure side of the transmitter body.  
(2) The transmitter body of the single-side and double-side screw-mounted flange seals is installed in the same way as the LFT70 series differential pressure transmitter.

■ TABLE OF STRUCTURAL DIMENSIONS FOR REMOTE FLANGE

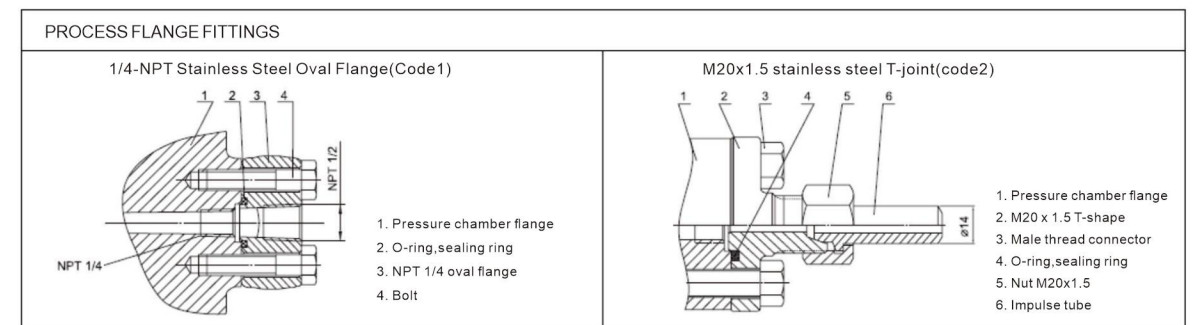
Test items	Test items	ΦD	ΦK	Φd1 p1 (log-in)	Φd2 Flat	Φd3	t	b	Required bolt Qty	Thread
DN 50 (Sealing surface DIN2526E) (Flange DIN2501)	PN1.6/4MPa	165	125	48.3	57	102	3 <sup>165</sup>	20	4	M16
	PN 6.4MPa	18	135	48.3	57	102	3 <sup>165</sup>	26	4	M20
	PN 10MPa	195	145	48.3	57	102	3 <sup>165</sup>	28	4	M20
DN 80 (Sealing surface DIN2526E) (Flange DIN2501)	PN1.6/4MPa	200	160	76	75	138	3 <sup>165</sup>	24	8	M16
	PN 6.4MPa	215	170	76	75	138	3 <sup>165</sup>	28	8	M20
	PN 10MPa	230	180	76	75	138	3 <sup>165</sup>	32	8	M24
DN 2" (ANSI B 16.5 RF)	150psi	152.4	120.6	48.3	57	92.1	3 <sup>165</sup>	17.4	4	M18
	300psi	165.1	127.0	48.3	57	92.1	3 <sup>165</sup>	20.6	8	M18
	600psi	165.1	127.0	48.3	57	92.1	6.35	31.75	8	M18
DN 3" (ANSI B 16.5 RF)	150psi	190.5	152.4	76	75	127	3 <sup>165</sup>	22.2	4	M16
	300psi	209.5	168.3	76	75	127	3 <sup>165</sup>	27.0	8	M20
	600psi	209.5	168.3	76	75	127	6.35	38.05	8	M20
DN 4" (ANSI B 16.5 RF)	150psi	229	191	89	89	157	3 <sup>165</sup>	30	8	M18
	300psi	255	200	89	89	157	3 <sup>165</sup>	32	8	M18

8: ELECTRICAL CONNECTION DIAGRAM



Terminal	
DC24V (4~20mA)	Power supply and output terminal
TEST	Power supply and output terminal External
⏚	Power meter test end (impedance should be less than 100 Ω)
	After large area

9: PROCESS CONNECTION INSTRUCTIONS FOR UNILATERAL REMOTE TRANSMISSION WITHOUT REMOTE FLANGE END





10:MODEL AND SPECIFICATION CODE LIST

MODEL	SPECIFICATION CODE LIST	EXPLAIN		
LFT720		LFT720-Single flange remote transmitter		
Range	B	1.0~40KPa		
	C	2.5~250Kpa		
	D	10~1000Kpa		
	G	1~10Mpa		
Output	E	Standard intelligent (4-20)mADC two-wire system + HART protocol digital communication		
Flange seal connection type	P	PFW flat		
	R	RFW flat flange		
	E	EFW insert cartridge		
	N	RTW screw-type		
Flange standrand	D	HG/T20592-2009 (DIN)		
	A	HG/T20615-2009 (ANSI)		
Flange Size		Flange size(DIN)	Flange size(ANSI)	Threaded size
	A	DN25	1 inch	1/2NPT
	B	DN40	1.5 inch	1/4NPT
	C	DN50	2 inch	3/8NPT
	D	DN80	3 inch	1NPT
	E	DN100	4 inch	1.5NPT
	T	Special size		
Flange level		Flange grade(DIN)	Flange size(ANSI)	
	A	PN10 / PN16	150	
	B	PN25 / PN40	300	
	C	PN2.5 / PN6		
	T	Special size		
Insert tube extension length	0	Flat flange		
	1	50mm		
	2	100mm		
	3	150mm		
	T	Special size		
High H-terminal capillary length	<input type="checkbox"/>	The capillary length ranges from 1 to 10m. Use □□ (for example, 1m:01.2m:02)		
Diaphragm material	A	316 Stainless steel		
	B	Hastelloy C		
	C	Platinum		
Filling fluid (temperature range)		Filling fluid	Temperature limit	
	D	Ordinary silicone oil DC200	-40~200°C	
	C	High temperature silicone oil DC704	0~315°C	
	F	Fluorine oil	-18~204°C	
Electrical interface	M	M20×1.5 Internal thread		
	N	1/2NPT Internal thread		
Mounting bracket	B1	Bending bracket (Carbon steel)		
	B2	Disc Bending Bracket (Carbon Steel)		
	B3	Tube Bending Bracket (Carbon Steel)		
	B5	Bending bracket (Carbon steel)		
	B6	Disc Bending Bracket (Carbon Steel)		
	B7	Tube Bending Bracket (Carbon Steel)		
Anti-hazard classification	N	Ordinary type (no explosion-proof)		
	D	Flameproofbd Exd II CT6		
	I	Intrinsically safe Exia II CT6		
Accuray level	2	0.2		
	5	0.5		
	7	0.075		
Remark	A	F46apparatus ligamentosus Weitbrechti		
	B	PFA coating		
	C	Rust steel flush connection ring		
	N	With "waist" shaped fitting: NPT 1/2 cone female thread (low pressure end)		
	J	With "T" shaped joint: M20X 1.5 external thread and external pressure pipe at the rear end (low pressure end)		
	F	With "waist" shaped joint: NPT 1/2 pressure transition head and external pressure pipe at the rear end (low pressure end)		
	K	Ungrease treatment		
	L	Hanging number plate		
	H	Lightning protection (withstand transient voltage)		
	E	English nameplate		
	M5	LCDliquid display		
	N	No header		

MODEL	SPECIFICATION CODE LIST	EXPLAIN		
LFT720		LFT720-Single flange remote transmitter		
Range	B	1.0~40KPa		
	C	2.5~250Kpa		
	D	10~1000Kpa		
	G	1~10Mpa		
Output	E	Standard intelligent (4-20)mADC two-wire system + HART protocol digital communication		
Flange seal connection type	P	PFW flat		
	R	RFW flat flange		
	E	EFW insert cartridge		
	N	RTW screw-type		
Flange standrand	D	HG/T20592-2009 (DIN)		
	A	HG/T20615-2009 (ANSI)		
Flange Size		Flange size(DIN)	Flange size(ANSI)	Threaded size
	A	DN25	1 inch	1/2NPT
	B	DN40	1.5 inch	1/4NPT
	C	DN50	2 inch	3/8NPT
	D	DN80	3 inch	1NPT
	E	DN100	4 inch	1.5NPT
	T	Special size		
Flange level		Flange grade(DIN)	Flange size(ANSI)	
	A	PN10 / PN16	150	
	B	PN25 / PN40	300	
	C	PN2.5 / PN6		
	T	Special size		
Insert tube extension length	0	Flat flange		
	1	50mm		
	2	100mm		
	3	150mm		
	T	Special size		
High H-terminal capillary length	<input type="checkbox"/>	The capillary length ranges from 1 to 10m. Use □□ (for example, 1m:01.2m:02)		
Low L-terminal capillary length	<input type="checkbox"/>	The capillary length ranges from 1 to 10m. Use □□ (for example, 1m:01.2m:02)		
Diaphragm material	A	316 Stainless steel		
	B	Hastelloy C		
	C	Platinum		
Filling fluid (temperature range)		Filling fluid	Temperature limit	
	D	Ordinary silicone oil DC200	-40~200°C	
	C	High temperature silicone oil DC704	0~315°C	
	F	Fluorine oil	-18~204°C	
Electrical interface	M	M20×1.5 Internal thread		
	N	1/2NPT Internal thread		
Mounting bracket	B1	Bending bracket (Carbon steel)		
	B2	Disc Bending Bracket (Carbon Steel)		
	B3	Tube Bending Bracket (Carbon Steel)		
	B5	Bending bracket (Carbon steel)		
	B6	Disc Bending Bracket (Carbon Steel)		
	B7	Tube Bending Bracket (Carbon Steel)		
Anti-hazard classification	N	Ordinary type (no explosion-proof)		
	D	Flameproofbd Exd II CT6		
	I	Intrinsically safe Exia II CT6		
Accuray level	2	0.2		
	5	0.5		
	7	0.075		
Remark	A	F46apparatus ligamentosus Weitbrechti		
	B	PFA coating		
	C	Rust steel flush connection ring		
	N	With "waist" shaped fitting: NPT 1/2 cone female thread (low pressure end)		
	J	With "T" shaped joint: M20X 1.5 external thread and external pressure pipe at the rear end (low pressure end)		
	F	With "waist" shaped joint: NPT 1/2 pressure transition head and external pressure pipe at the rear end (low pressure end)		
	K	Ungrease treatment		
	L	Hanging number plate		
	H	Lightning protection (withstand transient voltage)		
	E	English nameplate		
	M5	LCDliquid display		
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