



# PRODUCT OVERVIEW

# LEVEL MEASUREMENT

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## L701 Series Sanitary

### Flush Diaphragm Pressure & Level Transmitters



L701



#### Characters:

- ☆ Accuracy:  $\pm 0.5\%$ F.S.
- ☆ Wide working temperature scope
- ☆ Advanced digital temperature compensation.
- ☆ Excellent resistance against impact, overload, Shock and erosion.
- ☆ Highly-efficient lighting absorption and strong RFI & EMI resistance
- ☆ Impact resistance and disturbance
- ☆ 1.5 times range standard overload.
- ☆ 3 times range burst pressure
- ☆ CE approving

#### Applications:

- ★ Industrial course testing and control
- ★ Automatic testing system
- ★ well level measurement and control
- ★ Sea water level measurement and control
- ★ Tank pressure and level measurement
- ★ Laboratory equipment
- ★ Oil and Fuel Tank level measuring
- ★ Automatic detection system
- ★ Saving water to irrigate
- ★ Sanitary field of food and drink
- ★ and so on

#### I . Profiles:

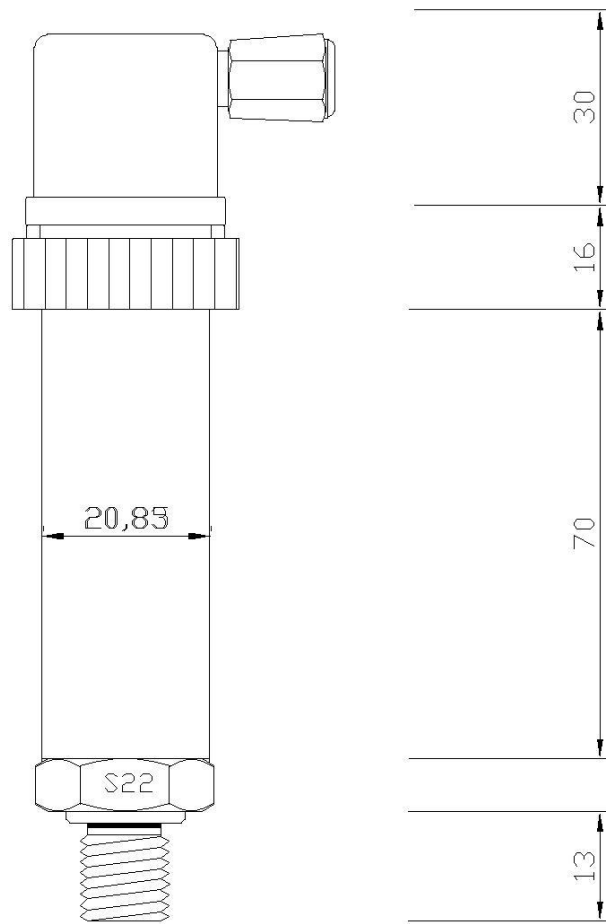
L701 is sanitary flush diaphragm type pressure and level transmitters. It is made by building in high stable and reliable piezo-resistive silicon pressure sensor and high accurate circuit board into the stainless steel housing. Integrated construction and standard signal provide the user easy and convenient application in the local working place. The special cable connects with housing, can be immersed into the media for a long time.

L701 pressure and level transmitter is flush diaphragm and process connection by thread and Clamp, which is outside install type level sensor, electronic connect parts by terminal box IP65, This model application in the field of water tank, Fuel tank, building& office water level measurement, city water supply, irrigation, food and sanitation, water factory, refinery, metallurgy, glass factory, swage dispose center, water supply, reservoir, river, sea...

## II . Specifications:

Model:	L701				
Parameter:					
Characteristic:	Various configurations Corrosive proof, dew proof and leakage proof function Full closed circuit High accuracy and well stability				
Technology parameter:	Electric connection: antiseptic Cable or by order. Cable materials are optional according request, we offer 3 type special cable as follow: PE Cable ( Water Proof ) ; PUR Cable ( Oil Proof ) ; PTFE Cable ( Anti-Corrosive ) .				
Pressure Range:	-1 Bar-0-1 Bar.....600 Bar (for pressure measurement) 0-1 mH2O.....500 mH2O Optional (for level measurement)				
Overload:	150% F.S.				
Burst Pressure	300% F.S.				
Accuracy: (Linearity Hysteresis Repeatability)	≤ ±0.5%F.S ≤ ±0.25%F.S ≤ ±0.1%F.S (high cost type!) Including non-lin., rep. and hys. Optional				
Long Stability:	Standard: 0.1%F.S±0.05%				
Working Temp:	-30℃~85℃ (Non-Cooling Device); -30℃~150℃ ( With Cooling Device)				
Storage Temp:	-40℃~120℃				
Temp Compensation:	-10℃~70℃				
Medium compatible:	Compatible with 316L Stainless Steel				
Electronic Wire:	2 Wire	3 Wires			4 Wires
Output:	4~20mA	0~5V; 1~5 V	0.5~4.5 V	0~10V	RS485 Modbus RTU
Power Supply:	12~36 V DC	12~36 V DC	5 V DC	15~36 V DC	10-30Vdc
Insulate resistance:	>100M Ω @50V				
Zero Temp. Drift:	0.03%FS/℃ ( ≤100kPa ) , 0.02%FS/℃ ( >100kPa )				
FS Temp. Drift:	0.03%FS/℃ ( ≤100kPa ) , 0.02%FS/℃ ( >100kPa )				
Electronic connection:	DIN 43650 Hirschman Terminal Box; Fixed cable and water proof IP68 optional.				
Process Connect:	G1/2", G1", M20*1.5, M24*1.5; Φ 50 flange or by order.				
Response time:	≤10ms				
Pressure Type:	Gauge pressure; Absolute pressure optional.				
Certificate approving:	Exia IICT5 and CE Certificate.				
EMC Standard:	electromagnetic radiation:EN50081-1/-2 electromagnetic susceptibility:EN50082-2				
Water Proof:	IP65 to IP68				
Weight:	Net weight is about 0.35KG, Full Packing weight is about 0.5KG (Not Include Cable)				
Remarks:	Special applications request by order				

## III. Dimension and Drawing:



L701

L701

## IV. Electronic Connections:

Electronic Wire Connections					
	Power Supply +	Power Supply -	Signal Output +	Signal Output -	Ground & Shield Wire
<b>2 wire</b> 4-20 mA	Red wire	NA	Black wire/Blue wire/Green wire	NA	NA
<b>3 Wire</b> 0-5V; 1-5V; 0.5-4.5V	Red wire	Black wire	Blue wire & Green wire	White wire & Yellow wire	Big Black wire

## V. Part Number Code Table For Pressure Range:

000	-1-0	016	0-1.5	031	0-10	047	0-125
001	-1-1	017	0-1.6	032	0-12	048	0-150
002	-1-9	018	0-1.7	033	0-15	049	0-200
003	-1-10	019	0-1.8	034	0-16	050	0-250
004	-1-16	020	0-1.9	035	0-20	051	0-300
005	-1-20	021	0-2.0	036	0-25	052	0-350
006	-1-25	016	0-2.1	037	0-30	053	0-400
007	-1-30	022	0-2.2	038	0-35	054	0-450
008	-1-35	023	0-2.3	039	0-40	055	0-500
009	-1-40	024	0-2.5	040	0-50	056	0-600
010	-1-65	025	0-3	041	0-60	057	0-700
011	0-0.5	026	0-4	042	0-65	058	0-800
012	0-1.0	027	0-5	043	0-70	059	0-1000
013	0-1.1	028	0-6	044	0-80	060	0-10000
014	0-1.2	029	0-7	045	0-90	061	0-15000
015	0-1.3	030	0-8	046	0-100	X	Customized

### VI.Order Information

<b>P/N</b> Selection	<b>L701</b> ( Model)	<b>3</b>	<b>8</b>	<b>012</b>	<b>B</b>	<b>0</b>	<b>N</b>	<b>G</b>
<b>Output</b>	3= 4-20mA 4= 0.5-4.5V Ratiometric 5= 0-5V 6= 1-5V 7= 0-10V 8= 0.5-4.5V 9=RS485 Modbus							
<b>Process connection</b>	8=M20*1.5 male 9=G1/2" male 18=Clamp Ø50 mm 29 =G1" male X=By Customized							
<b>Pressure Measurement</b>	See last pages Pressure Range Code Table and select your requested range code adhere here.							
<b>Pressure Unit</b>	H=m H2O    B=Bar    P=Psi    F=m Fuel							
<b>Accuracy</b>	0=0.5%F.S.    1=0.25%F.S.    2=0.15%F.S.							

Example: L701-38-012-B0NG