

# PRODUCT OVERVIEW

# LEVEL MEASUREMENT

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# Submersible Pressure Level Transducer & Transmitter L703

#### Profile

L703 is a fully sealed submersible level transducer/transmitter. It is made by built-in highly stable and reliable OEM piezo-resistive pressure sensor and highly accurate circuit board into the stainless steel housing. Integrated construction and standard signal provide the user the easy and convenient application in the local working place. The special cable connected with housing, can be immersed into the media for a long time.

For high temperature level application (up to  $100^{\circ}$ C), which is a customized transmitter and manufactured with Germany sputtered film chips sensor, so the stability and quality very good.

L703 level transducer/transmitter has a compact size, light weight and good stability; it can be used for water or fuel or liquid measurement and control of medicine, metallurgy, electricity, mine, city water supply and drainage and hydrology, etc.



**Characteristics** 

- ☆ Accuracy: ≤±0.5%F.S.
- $\stackrel{\wedge}{\curvearrowright}$  Wide working temperature scope.
- $\stackrel{\wedge}{\sim}$  Advanced digital temperature compensation.
- ☆ Excellent resistance against impact, overload, shock and erosion.
- ☆ Highly-efficient lighting protection and strong RFI & EMI resistance.
- $\stackrel{\wedge}{
  ightarrow}$  Impact resistance and disturbance.
- $\stackrel{\wedge}{\curvearrowright}$  1.5 times range standard overload.
- $\cancel{3}$  3 times range burst pressure .
- $\stackrel{\wedge}{\curvearrowright}$  CE approving.

#### Applications

- ★ Industrial course testing and control
- $\star$  Automatic testing and detection systems
- ★ well level measurement and control
- ★ Sea water level measurement and control
- ★ Sewage project and level application
- ★ Laboratory equipment
- ★ Oil and Fuel Tank level measuring
- ★ High temperature medium level application.
- ★ Building monitoring and control for water level
- ★ Various liquid tanks pressure or level measurement
- ★ And so on...

## Specifications

Model	L703								
Parameter									
Level Range	0-1100m H20 (Special by customized)								
Pressure Type	Gage pressure, sealed gauge pressure optional								
Electrical Wire	2 Wires	4 wires							
Output	4~20mA	1~5V 0~5V	0~10 V	0.5~4.5 V SDI-12		RS485 Modbus RTU			
Power Supply	12~36Vdc	10~36Vdc	15~36Vdc	5Vdc	10~30Vdc	10~30Vdc			
Working Temp.	-30°C~70°C or -30°C~100°C (Customized)								
Storage Temp.	-40°℃~85°℃								
Temperature compensation	0°C~50°C								
Accuracy	$\leq \pm 0.5\%$ F.S, $\leq \pm 0.25\%$ F.S(by customized)								
Long-term Stability	Standard: 0.2%F.S±0.05%								
Zero Temp. Drift	0.05%FS/°C (≤100kPa), 0.04%FS/°C (>100kPa)								
FS Temp. Drift	0.03%FS/℃(≤100kPa), 0.02%FS/℃(>100kPa)								
Overload	150% F.S.								
Medium compatible	Compatible with 316L Stainless Steel								
Ingress Protection	IP68								
Certificate	CE, ATEX								

### Dimension and Drawing



#### **Electrical Connections**



### Part Number Code Table For Pressure Range

000	0-1.0	009	0-1.9	018	0-8	027	0-50
001	0-1.1	010	0-2.0	019	0-10	028	0-60
002	0-1.2	011	0-2.1	020	0-12	029	0-80
003	0-1.3	012	0-2.5	021	0-15	030	0-100
004	0-1.4	013	0-3	022	0-20	Х	Customized
005	0-1.5	014	0-4	023	0-25		
006	0-1.6	015	0-5	024	0-30		
007	0-1.7	016	0-6	025	0-35		
008	0-1.8	017	0-7	026	0-40		

#### Order Information

P/N Selection	L703 (Model)	010	E5	S37	н	1	1	G	
Range	Refer to PART NUMBER CODE TABLE FOR RESSURE RANGE on previous page and select your requested range code here.								
Output	E5=4-20mA(2 E7=0-10V(3 w E8=0.5-4.5V r wires) E21=0.5-4.5V wires) E0=1-5V(3 win E11=RS485(M	wires) E6=0-5V(3 wires ires) atiometric (by customize non-ratiometric (by defa res) E16=SDI-12 IODBUS) X= By Customi:	) d, 3 ult, 3 zed						
Power Supply	S6=5Vdc S37=12-36Vdc S44=15-36Vdc S17=10-30Vdc S51=10-36Vdc X= By Customized								
Pressure & Level Units	B=Bar P=PS	I H=H <sub>2</sub> O F=m Fuel							
Accuracy	1=0.5%F.S 2=0.25%F.S (by customized)								
Cable Length	1=Cable 1m	2=Cable 2m 3=Cable 3r	n X=Ca	ıble x m					
Pressure Type	G=Gauge Pres	sure A=Absolute Pres	sure S=S	Sealed P	ressure				
	N= Standard 1	ype (with short filter)	TF=\	Vith Tap	ered Filt	er Cov	ers		

**Others Function** (Optional)

M1=G 1/4" male thread mounting type NM=Nylon materials filter TA=Titanium alloy materials (high cost!) P=All Plastic Housing Structure

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