



PRODUCT OVERVIEW

LEVEL MEASUREMENT

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L703 Submersible Pressure Level Transducers & Transmitters



Stainless Steel Head

Characters:

- ☆ Accuracy: $\leq \pm 0.5\%F.S.$
- ☆ Wide working temperature scope
- ☆ Advanced digital temperature compensation.
- ☆ Excellent resistance against impact, overload, Shock and erosion.
- ☆ Highly-efficient lightning protection 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 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

I . Profiles:

L703 is full sealed submersible level transducer/transmitter. It is made by building in high stable and reliable OEM piezo-resistive 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.

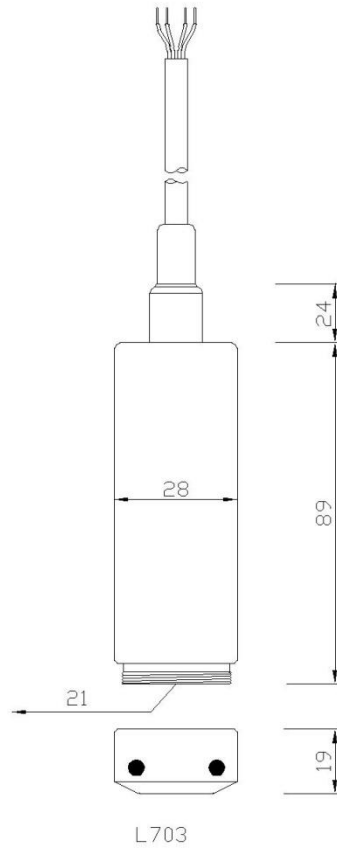
For high temperature level application (up to 100 degree C), which is customized transmitters and manufacture with Germany sputtered film chips sensor, so the stability and quality very good.

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

II . Specifications:

Parameter:	Model:	L703				
Characteristic:	Various configurations Corrosive proof, explore proof and leakage proof functions Highly-efficient lighting protection and strong RFI & EMI resistance and well stability					
Applications:	a. Water tank level measurement and control. b. Fuel tank level measurement and monitor (diesel, gasoline, kerosene and so on). c. Liquid level measuring in tank, rivers, lake, sea, well, tube, underground water and so on. d. Special occasion such as high temperature liquid (up to 100 degree C), strongly corrosion liquid level measurement (request by customized.)					
Pressure Range:	0-0.1 Bar.....50 Bar / 0-1M.....500M H2O Optional					
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 Including non-lin., rep. and hys. Optional					
Long Stability:	Standard: 0.2%F.S ± 0.05%					
Working Temp:	-30°C~70°C OR -30°C~100°C (Customized)					
Storage Temp:	-40°C~90°C OR -40°C~100°C (Customized)					
Temperature Compensation:	-10°C~65°C OR -20°C~80°C (Customized)					
Medium compatible:	Compatible with 316L Stainless Steel					
Electronic Wire:	2 Wires	3 Wires			4 wires	
Output:	4~20mA	1~5V 0~5V	0~10 V	0.5~4.5 V Ratiometric	0-100 mV/V	RS485 Modbus RTU
Power Supply:	12~36 V DC	10~36 Vdc	15~36 Vdc	5 Vdc	10 Vdc	10~30 Vdc
polarity protection	Yes	Yes	Yes	Yes	Yes	Yes
Insulate resistance:	>100M Ω@100V					
Zero Temp. Drift:	0.03%FS/°C (≤100kPa); 0.02%FS/°C (>100kPa)					
FS Temp. Drift:	0.03%FS/°C (≤100kPa); 0.02%FS/°C (>100kPa)					
Electronic connection:	Fixed cable and water proof IP68					
Response time:	≤10 ms (standard); ≤1 ms (Customized)					
Pressure Type:	Gage pressure; Sealed gage pressure optional.					
Certificate approving:	intrinsic safety or ExdIICT6 and CE Certificate approving					
EMC Standard:	EN 61326-1:2013; EN 61326-2-3:2013 EN 61000-6-2:2005; EN61000-6-4:2007+A1					
Lighting Protection: (optional functions)	Air conduction more than 8000V; external sensor more than 4000 Voltage protection.					
Cable optional:	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) .					
Weight:	Net weight is about 0.35KG, Full Packing weight is about 1.0 KG (Not Include Cable)					
Remarks:	Special applications request by customized					

III. Dimension and Drawing:



IV. Electronic Connections:

Electronic Wire Connections					
	Power Supply Vcc+	Power Supply V-/0V	Signal Output S+	Signal Output S-/0V	Ground Wire
2 wire 4-20 mA	Red wire	NA	Blue wire & Green wire	NA	Yellow wire
3 Wire 0-5V; 0-10V; 0.5-4.5V	Red wire	Black wire	Blue wire & Green wire	White/Yellow wire	Yellow wire
4 wires RS485 MODBUS	Red wire	Green wire	Yellow wire	Blue wire	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

P/N Selection	L703 (Model)	3	N	027	H	0	5	G
Output	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							
Process connection	N= Standard Type (with short filter) TF=With Tapered Filter Covers M1=G 1/4" male thread mounting type NM=Nylon materials filter TA=Titanium alloy materials (high cost!) P=All Plastic Housing Structure							
Pressure Measurement	See last pages Pressure Range Code Table and select your requested range code adhere here.							
Pressure Unit	H=m H2O B=Bar P=Psi F=m Fuel							
Accuracy	0=0.5%F.S. 1=0.25%F.S. 2=0.15%F.S.							
Cable length	1= Cable 1M 2= Cable 2M 3= Cable 3M 4= Cable 4M 5= Cable 5M 6= Cable 6M xxx=Cable xxxM							
Pressure type	G=Gage S=Sealed A=Absolute							

Stock Parts

Example: L703-3N-027-H-05G