



PRODUCT OVERVIEW

LEVEL MEASUREMENT

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L707 Smaller Diameter Submersible Pressure Level Transducers & Transmitters



L707

Characters:

- ☆ Accuracy: $\leq \pm 0.5\% \text{F.S.}$
- ☆ 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
- ☆ High quality Sputter thin film sensors
- ☆ 1.5 times range standard overload.
- ☆ 3 times range burst pressure
- ☆ Diameter 19 mm

Applications:

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

I. Profiles:

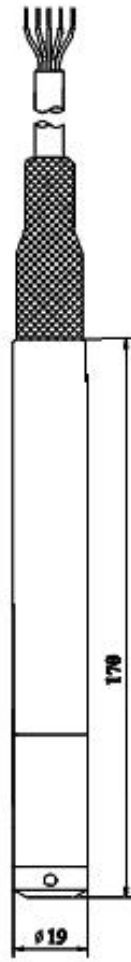
L707 is full sealed submersible level transducer/transmitter. It is made by building in high stable and reliable Sputter thin film sensors and high accurate circuit board into the stainless steel housing. Integrated construction and standard signal provide the user easy and convenient application in the local working place. The special cable connects with housing, can be immersed into the media for a long time.

L707 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:

Model:	L707
Parameter:	
Technology parameter:	Ranges: 0~2Meters H2O~500 Meters H2O (0-0.2Bar ~ 1Bar~50Bar) ---optional Combined error: $\leq 0.5\%F.S.O$ Output: 4~20mA(standard) or 0-10V or 0-5V or 0.5-4.5V Input voltage: 24Vdc (12~36Vdc) Operating temperature: $-30^{\circ}C \sim +85^{\circ}C$ 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:	0-0.2 Bar.....50 Bar / 0-2M.....500M H2OOptional
Overload:	150% F.S.
Burst Pressure	300% F.S.
Accuracy: (Linearity; Hysteresis; Repeatability)	$\leq \pm 0.5\%F.S$; $\leq \pm 0.25\%F.S$; $\leq \pm 0.1\%F.S$ optional Including non-lin., rep. and hys. Optional
Long Stability:	Standard: $0.01\%F.S \pm 0.005\%$
Working Temp:	$-30^{\circ}C \sim 85^{\circ}C$
Storage Temp:	$-40^{\circ}C \sim 125^{\circ}C$
Temperature Compensation:	$-10^{\circ}C \sim 70^{\circ}C$
Medium compatible:	Compatible with 316L Stainless Steel
Electronic Wire:	2 Wire
Output:	4~20mA
Power Supply:	12~36 V DC
Life time:	$\geq 100,000,000$ pressure cycles
Zero Temp. Drift:	$0.015\%FS/^{\circ}C$ ($\leq 100kPa$); $0.01\%FS/^{\circ}C$ ($>100kPa$)
FS Temp. Drift:	$0.015\%FS/^{\circ}C$ ($\leq 100kPa$); $0.01\%FS/^{\circ}C$ ($>100kPa$)
Electronic connection:	Fixed cable and water proof IP68(5 layer grade seal, water proof cover+2 grade Rectangular ring + O-ring seal+ sealant+ Encapsulating compound)
Pressure mounting port:	1. With stainless steel filter (Standard type), 2. With nylon filter, 3, With G1/4" male thread, 4. With 1/4"NPT male thread and so on.
Response time:	$\leq 10ms$
Pressure Type:	Gauge pressure, sealed gauge pressure optional
Certificate approving:	ExdIICT6 and CE Certificate.
EMC Standard:	electromagnetic radiation: EN50081-1/-2 electromagnetic susceptibility: EN50082-2
Weight:	Net weight is about 0.5KG, Full Packing weight is about 0.8KG (Not Include Cable)
Remarks:	Special applications request by customized

III. Dimension and Drawing:



L707

IV. Electronic Connections:

Electronic Wire Connections					
	Power Supply +	Power Supply -	Signal Output +	Signal Output -	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 wire	Yellow wire

V. Part NumberCode Table For Level 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	L707 (Model)	3	027	H	0	5	G
Output	3= 4-20mA X=By Customized						
Level Measurment	See last pages Level 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.			
Cable length	1= Cable 1M 4= Cable 4M xxx=Cable xxxM	2= Cable 2M 5= Cable 5M	3= Cable 3M 6= Cable 6M				
Pressure type	G=Gage S=Sealed A=Absolute						