



# PRODUCT OVERVIEW

# LEVEL MEASUREMENT

MAC Sensor Co.,LTD.

Changsha City,Hunan,China

<http://www.macsensor.com>

TEL: +86-731-89975636 / 89975645

## L706 Flood and Rivers Pressure Level Transducers & Transmitters



### Characteristics

- ☆ 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

### Applications

- ★ Flood or Rivers level measuring and survey
- ★ Lake water level survey
- ★ well level measurement and control
- ★ Sea water level measurement and control
- ★ Industrial course testing and control
- ★ Laboratory equipment
- ★ Automatic detection system
- ★ Saving water to irrigate
- ★ Sewage pump station level measurement
- ★ And so on

### Profiles

L706 is a fully sealed submersible level transducer/transmitter with ceramic filter. It is manufactured by high stable and reliable OEM piezo-resistive silicon pressure sensor and high accurate circuit board enclosed 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.

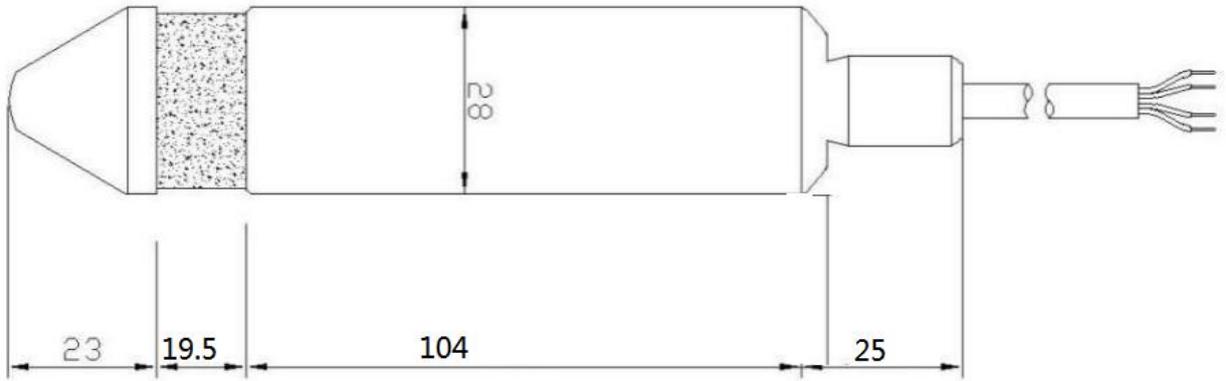
L706 level transducer/transmitter has compact size, good stability it can be used for rivers, flood, sewage, water, liquid measure and control of Sewage pump station, water well, liquid tank, medicine, metallurgy, electricity, mine, city water supply and drainage and hydrology, especially used in the field of sewage level and pressure measurement project.

## Specifications

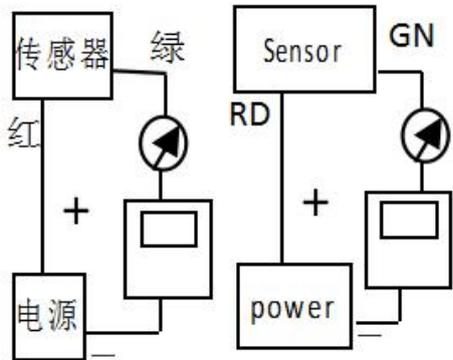
Model Parameter	L706			
Pressure Range	0-0.1 Bar.....50 Bar / 0-1M.....500M H2O Optional			
Overload	150% F.S.			
Burst Pressure	300% F.S.			
Accuracy (Linearity Hysteresis Repeatability)	$\leq \pm 0.5\%F.S$ $\leq \pm 0.25\%F.S$ $\leq \pm 0.1\%F.S$ (by customized). Including non-lin., rep. and hys. Optional			
Long-term Stability	Standard: 0.1%F.S $\pm$ 0.05%			
Working Temp.	-20 $^{\circ}$ C~80 $^{\circ}$ C			
Storage Temp.	-40 $^{\circ}$ C~120 $^{\circ}$ C			
Temperature Compensation	-10 $^{\circ}$ C~70 $^{\circ}$ C			
Medium compatible	Compatible with 316L Stainless Steel			
Electrical Wire	2 Wire	3 Wire		
Output	4~20 mA	0~5V / 1~5V	0~10 V	0.5~4.5 V
Power Supply	12~36 V DC	8-32VDC	12~36Vdc	5 V DC
Insulate resistance	>100M $\Omega$ @50V			
Loading resistance	(U-10)/0.02 $\Omega$	>100K $\Omega$		
Zero Temp. Drift	0.03%FS/ $^{\circ}$ C ( $\leq$ 100kPa), 0.02%FS/ $^{\circ}$ C (>100kPa)			
FS Temp. Drift	0.03%FS/ $^{\circ}$ C ( $\leq$ 100kPa), 0.02%FS/ $^{\circ}$ C (>100kPa)			
Electrical connection	Fixed cable and water proof IP68			
Process Connection	None or by customized			
Response time	$\leq$ 10ms			
Pressure Type	Gauge pressure, sealed gauge pressure, absolute pressure optional.			
Certificate approval	Exia IICT6 and CE Certificate.			
EMC Standard	Electromagnetic radiation:EN50081-1/-2 Electromagnetic susceptibility:EN50082-2			
Water Proof	IP68			

## Dimension and Drawing

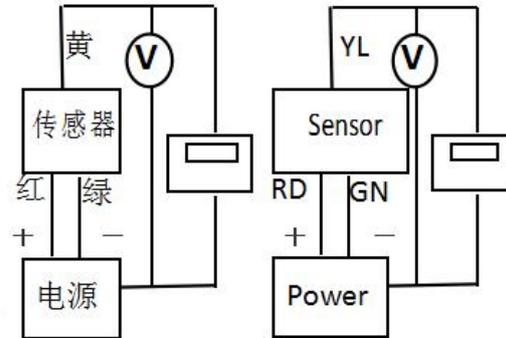
Unit, mm



## Electrical Connections



Current output, 2-wire



Voltage output, 3-wire

## 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	031	0-250
005	0-1.5	014	0-4	023	0-25	032	0-300
006	0-1.6	015	0-5	024	0-30	033	0-400
007	0-1.7	016	0-6	025	0-35	034	0-500
008	0-1.8	017	0-7	026	0-40	X	Customized

**Order Information**

<b>P/N</b>	<b>L706</b>	<b>010</b>	<b>E5</b>	<b>S37</b>	<b>H</b>	<b>1</b>	<b>1</b>	<b>G</b>	<b>A</b>
<b>Selection</b>	<b>(Model)</b>								
<b>Range</b>	Refer to <i>PART NUMBER CODE TABLE FOR RESSURE RANGE</i> on previous page and select your requested range code here.								
<b>Output</b>	E5=4-20mA(2 wires)    E6=0-5V(3 wires) E7=0-10V(3 wires)    E8=0.5-4.5V(3 wires) E0=1-5V(3 wires)      X= By Customized								
<b>Power Supply</b>	S6=5Vdc                  S37=12-36Vdc S17=10-30Vdc        S26=8-32Vdc X=By customized								
<b>Pressure &amp; Level Units</b>	B=Bar	P=PSI	H=H <sub>2</sub> O	F=m Fuel					
<b>Accuracy</b>	1=0.5%F.S      2=0.25%F.S      3=0.1%F.S(by customized)								
<b>Cable Length</b>	1=Cable 1m      2=Cable 2m      3=Cable 3m      X=Cable x m								
<b>Pressure Type</b>	G=Gauge Pressure      A=Absolute Pressure      S=Sealed Pressure								

**Process Connection**      A=None(With ceramic filter)  
 X=By customized