Product introduction

LONN-3LX Sediment Control Level Transmitter

LONN-3LX is an all-sealed input diffused-silicon level measuring instrument which adopts the high-accuracy and high-stability pressure sensitive element with stainless steel isolation diaphragm to realize linear error compensation and temperature drift compensation through reasonable structure design and advanced micro-processing technology. Besides, it is equipped with a waterproof cable with ventilation duct making the sensor's back-pressure cavity connecting to the atmosphere. Through sealed package it is made into an industry-standard 4 ~ 20mA or 0.5 ~ 4.5V signal integrative product.

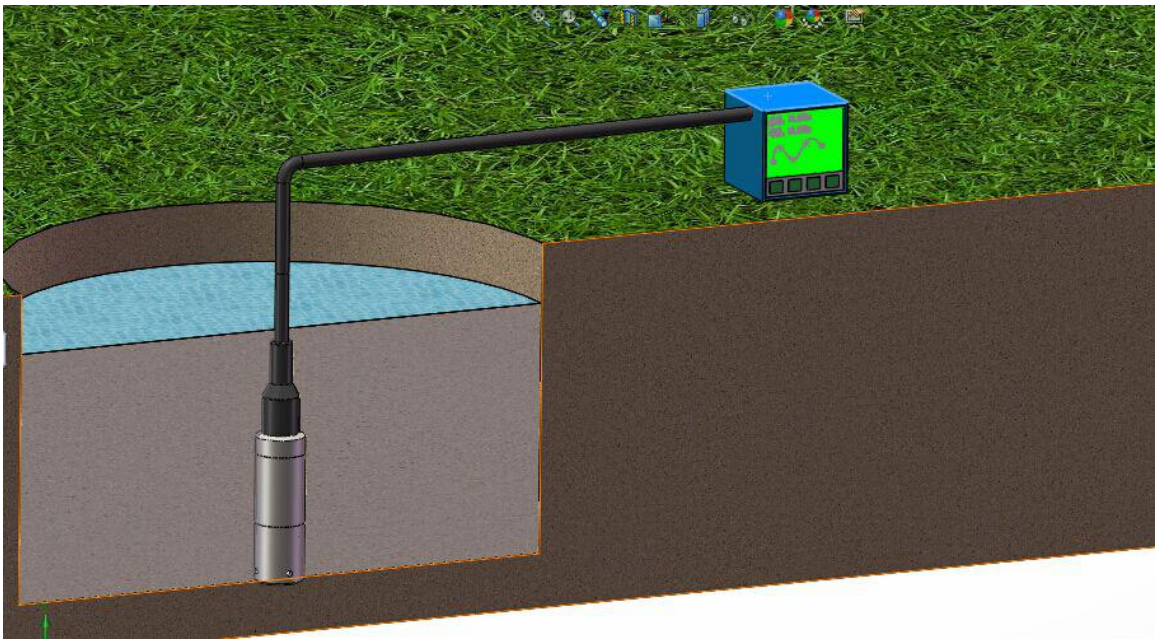
Product features

- Wide measuring range: 0～1m～200mH2O
- Multiple outputs available: 4-20mA, 4-20mA+Hart, 0.5-4.5V, MODBUS-RTU/RS485
- Unique three-layer filter screen design to prevent damage and block
- Good temperature drift ≤0.01%FS/℃
- Anti-condensation technology and anti-interference design
- All-welded structure and protection rating up to IP68

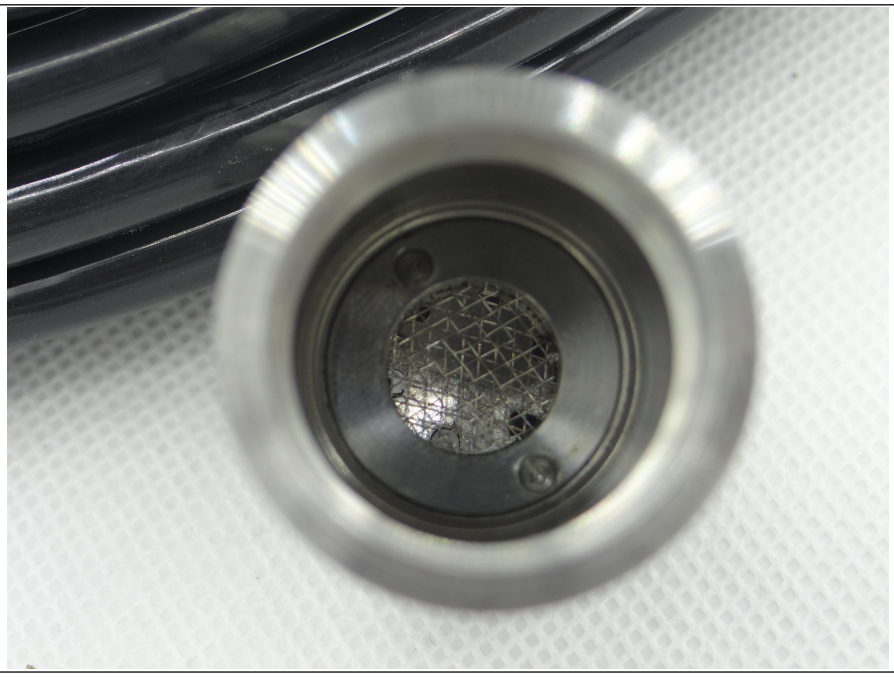
Field of application

The product is mainly applicable to dams, rivers and other occasions where are rich in sediment to realize the measurement and control of static and dynamic level of various liquids.

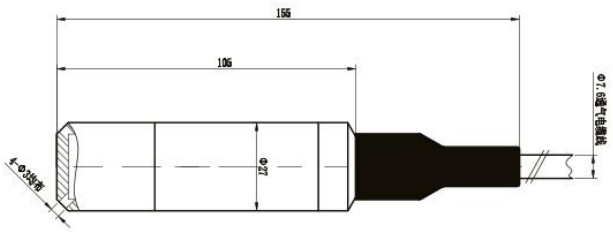
Simulation application



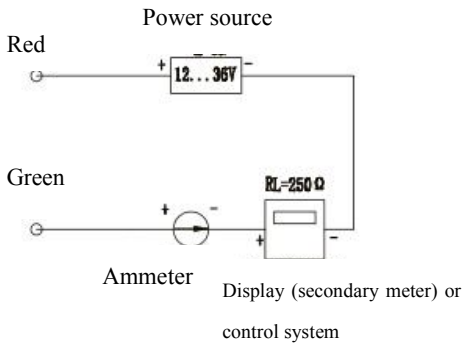
Technology and structure



Outside view



Wiring diagram



Technical parameters

Range	0～1, 5, 100, 200mH_2O		
Pressure type	Gauge pressure		
Output signal	4～20mA, 4～20mA+HART protocol, 4～20mA+RS485 protocol		
Input voltage	12～36V DC		
Accuracy	0.1	0.2（0.25）	0.5
Nonlinear Repeatability Delaying	0.1	0.2（0.25）	0.5
Zero and sensitivity drift	0.01	0.02（0.025）	0.005
Temperature compensation	-10℃～70℃		
Work temperature	-20～+85℃		
Long-term stability	≤0.1±%FS/year		
Response time	＜1ms		
Overload capacity	200%		
Load resistance	R=(U-12.5)/0.02-R_D U=power voltage; R_D=internal resistance of power source		
Measurement medium	Corrosive media compatible with 316L		

Diaphragm material	316L stainless steel
Case material	1Cr18Ni9Ti
Protection rating	IP68

Instruction to model selection

LONN-3LX							
	Type	01: Integrated type ; 02: Separated type					
		Range	0～1～5, 100, 200mH_2O				
			Output	01: 4～20mA; 02: 4～20mA+HART; 03: 4～20mA+RS485 protocol			
				Precision	0.1; 0.25; 0.5		
					Process interface		
						Medium density	H_2O=1g/cm^3
Model selected	LONN-3LX	0～5mH_2O	01	0.25	00	1g/cm^3	

Xi'an Lonn M&E Equipment Co.,Ltd

12th South of Chang'an road,Yan ta Dist.Xi'an City,Shaanxi Province,China

+86-29-8866-1865 +86-29-8866-0964

xalonn@aliyun.com

www.xalonn.com

www.facebook.com/xianlonn

www.linkedin.com/company/13385899