

Product introduction



LONN-2SX Small Pressure Transmitter

LONN-2SX small pressure transmitter adopts the high-accuracy and high-stability force sensitive chip with stainless steel isolation diaphragm to realize temperature and linear compensation, signal amplification, V/I switch, inverse polarity protection, and current limiting when pressure overloaded through laser resistor trimming and advanced thick-film technology. It outputs industry-standard 4-20mA or 0.5-4.5V signal.

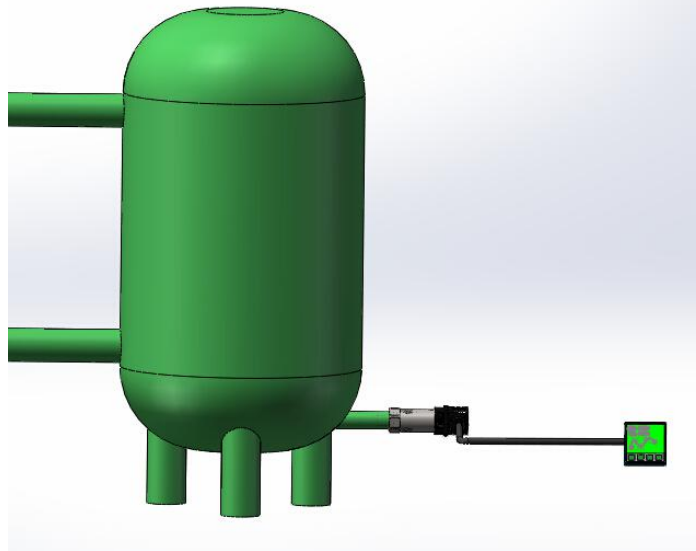
Product features

- High accuracy and reliability with Germany-made chip
- Use of 316L isolation diaphragm and stainless steel case
- General precision: 0.25 grade, customized 0.1 grade is available
- Multiple process interfaces and electrical interfaces are available for selection
- Multiple pressure types are available for selection
- In-built advanced anti-interference and surge protection circuit
- Small size and low cost and easy for installation

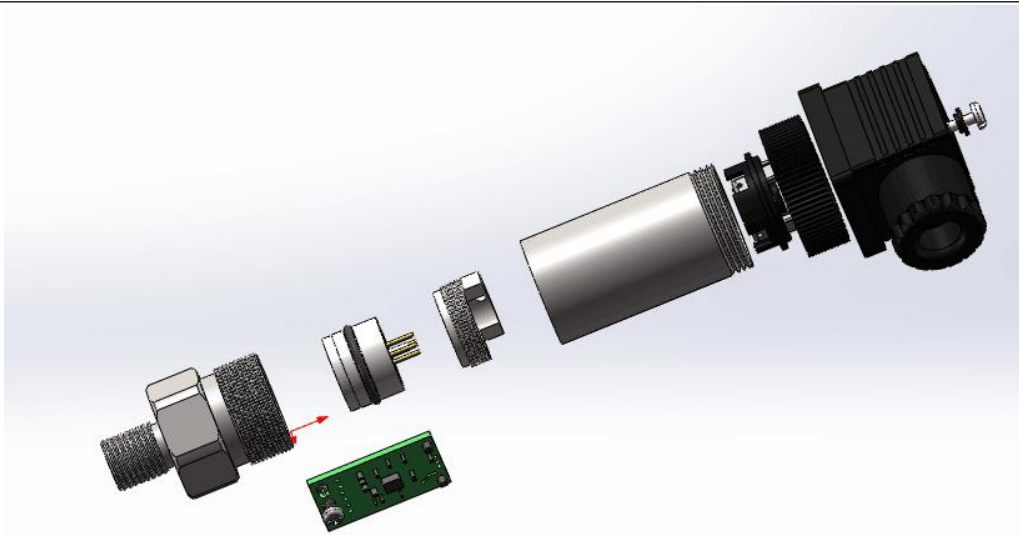
Field of application

It can be used to measure the pressure, absolute pressure and negative pressure of corrosive gases, liquids and steam in the fields of petroleum, chemical industry, metallurgy, electric power and environmental protection. It can also be used to measure the pressure under low vacuum, atmospheric pressure and harsh environment.

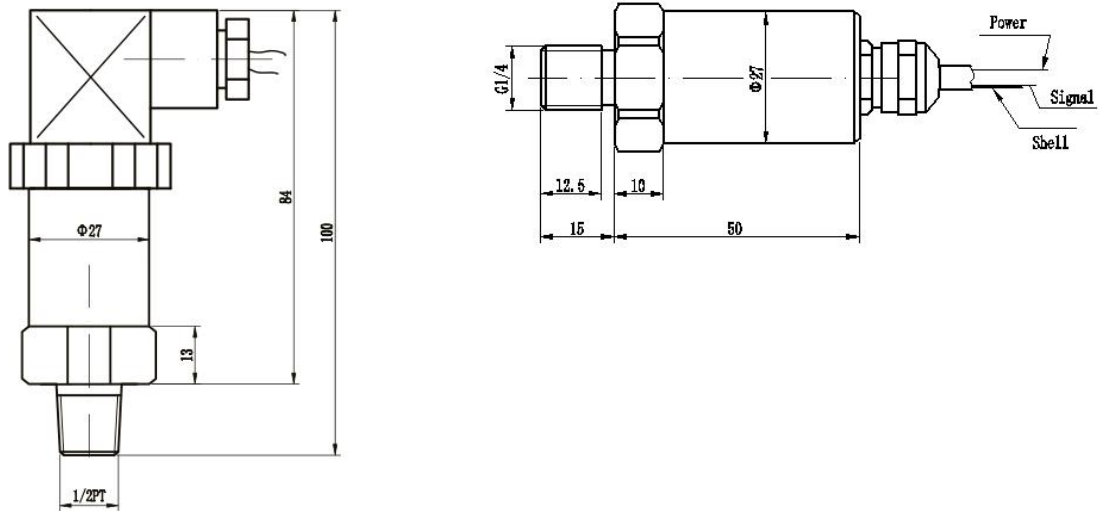
Simulation application



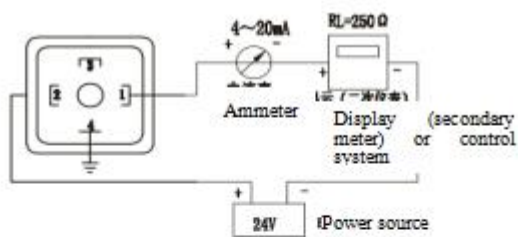
Technology and structure



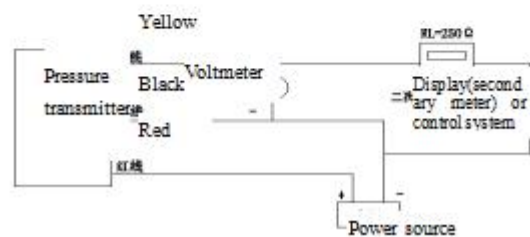
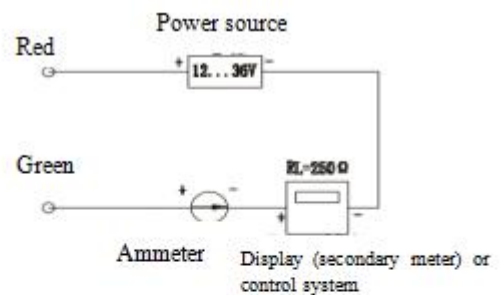
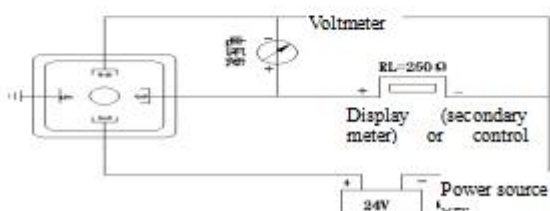
Outside view



Wiring diagram



Two-wire system current output wiring diagram



Technical parameters

Range	-100~0~5, 100, 500, 800, 1000kPa 0~2, 10.....40MPa		
Pressure type	Gauge pressure, negative pressure and absolute pressure		
Output signal	4~20mA , 0.5~4.5V		
Input voltage	12~36V DC (5V)		
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, heusler alloy C-276		
Case material	1Cr18Ni9Ti		
Protection rating	IP67		

Instruction to model selection

LONN-2SX						
	Type	01: Hirschmann socket ; 02: Aerial socket; 03: Waterproof socket 04: direct connection				
		Range	-100~0~5, 100, 500, 800, 1000kPa; 0~2, 10.....40MPa			
			Output	01: 4~20mA; 02: 0.5~4.5V		
				Precision	0.1; 0.25; 0.5	
					Process interface	M20×1.5 user-defined



						Pressure type	G: gauge pressure A: absolute pressure D: Differential pressure
Model selected	LONN-2SX	0~1MPA	01	0.25	M20×1.5	G	

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