



HUAXINLIAN

Professional Pressure Sensor Manufacturer

HXL-200

Standard Industrial Pressure Transmitter Series

「Technical Specification」

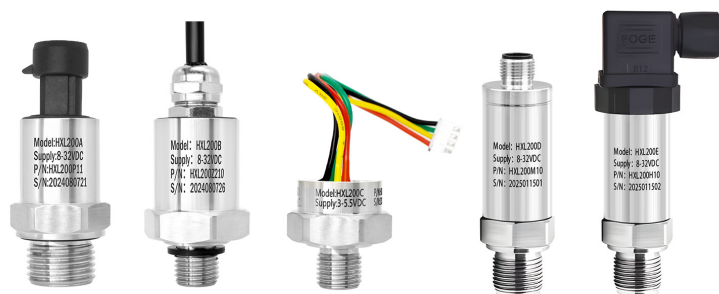
1. Ceramic Monolithic Pressure Sensor and Module
2. Ceramic Flush Diaphragm Pressure Sensor and Module
3. Ceramic Capacitive Pressure Sensor and Module
4. MEMS Sensor
5. Pressure Transmitter
6. Level Sensor

HXL-200

Standard Industrial Pressure Transmitter Series

Features

- Wide Temperature Range, -40°C to 85°C
- Compact Structure with Excellent Cost-Effectiveness
- Algorithm Compensation and Correction Technology
- 150% F.S Overload Resistance Performance
- High Impact Resistance
- Multiple Signal Outputs
- Supports Customization for Various Specifications



HXL-200A HXL-200B HXL-200C HXL-200D HXL-200E

Applications

- Water Resources Energy
- Process Equipment
- Mechanical Manufacturing
- Petrochemical industry
- Food and Pharmaceutical Industry

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Description

HXL-200 Series Transmitter is a fully independent and self developed product by Huaxinlian, designed for general industrial pressure applications. Its core sensor utilizes a selfdeveloped ceramic core.

The product features high temperature resistance, corrosion resistance, high stability, and high reliability. With its compact size, superior overall performance, and cost-effectiveness, it is suitable for measuring industrial liquids and gases. It is well-suited for applications in hydraulic energy, process equipment, machinery manufacturing, petrochemical industry, and food and pharmaceutical industries.

From R&D design, production assembly, calibration, to quality inspection, every step of our manufacturing process strictly adheres to international quality production system standards.

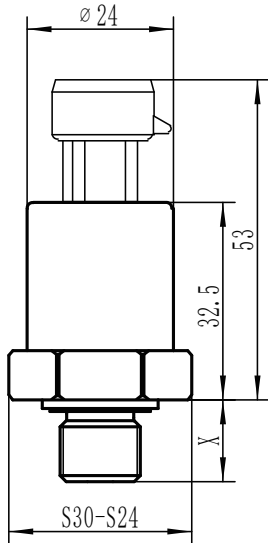
Measuring range	
Unit	Measuring Range
bar	-1 to 1...0 to 0.1...0 to 600
mbar	-1000 to 1000...0 to 100...0 to 600000
MPa	-0.1 to 0.1...0 to 0.01...0 to 60
kPa	-100 to 100...0 to 10...0 to 60000
Pa	-100000 to 100000...0 to 10000...0 to 60000000
psi	-14.5 to 14.5...0 to 1.45...0 to 8700
mmHg	-750 to 750...0 to 75...0 to 450037.2
inHg	-29.53 to 29.53...0 to 2.953... 0 to 17718

Materials		
Wetted Parts	Standard	Optional
Case	304Stainless steel	316L Stainless steel / Customizable
Sensor	Ceramic	NA
O-ring	NBR	EPDM / CR / PTFE
Cable	RVVP2×0.35mm ² PVVP3×0.35mm ²	NA
Electrical Connector	Flame Retardant PAGF30	NA

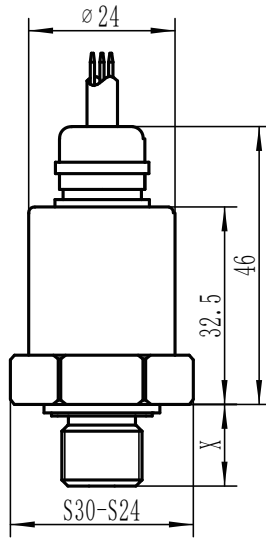
Specifications

Model	HXL-200 Series			
Pressure Type	Gauge Pressure, Negative Pressure, Absolute Pressure			
Range	-1-0-1...600 bar (Customizable)			
Accuracy	≤ ±1%F.S; Customizable			
Electrical Performance	2-wire	3-wire		4-wire
Output Signal	4~20mA	0.5~4.5V	0.35~2.7V Ratio	0.132~4.5V Ratio IIC/UART Digital Signal
Supply Voltage	8-32V DC	5V DC		3-5.5V DC/5VDC
Operating Temperature	-40°C~85°C			
Storage Temperature	-40°C~105°C			
Electrical Connection	Packard Connector, Straight Connection, Aviation Connector, Hirschmann Connector			
Pressure Connection	Internal Thread	7/16~20 UNF		
	External Thread	1/4" NPT, R1/4, G1/4", G1/2", M14×1.5, M16×1.5, M20×1.5		
	Customizable	Thread specifications can be customized according to customer requirements		
Materials	Housing	SUS304 stainless steel (standard),Copper (optional), 316L stainless steel (optional), Customizable		
	Sensor	Ceramic (Standard)		
	O-ring	NBR (Standard), PTFE/CR/EPDM (Optional)		
Protection Rating	IP65、IP67、 Customizable			
Response Time	≤10ms			
Overload Pressure	150%F.S.			
Long-term Stability	0.1%F.S.±0.05%/year			
Burst Pressure	300% F.S. (P≤100bar); 200% F.S. (100bar < P≤ 400bar); 150%F.S (400 < P≤ 600bar)			
Insulation Resistance	>100M Ω @50V DC			

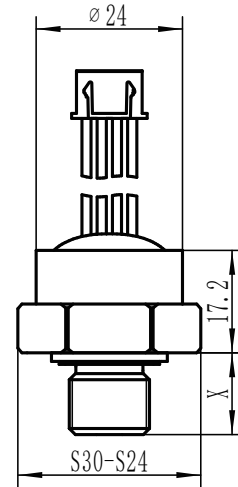
Dimensions and Wiring Definitions



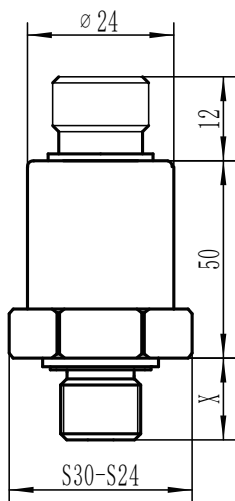
HXL-200A



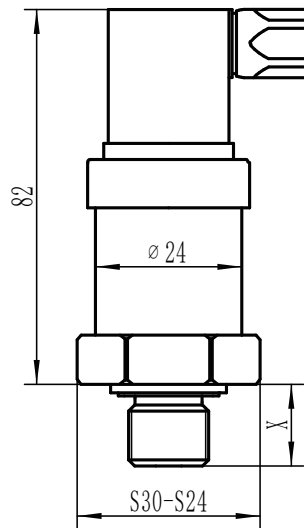
HXL-200B



HXL-200C

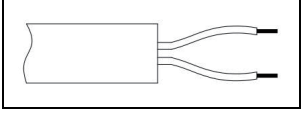
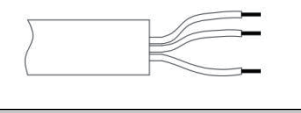
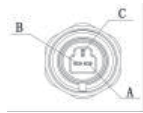
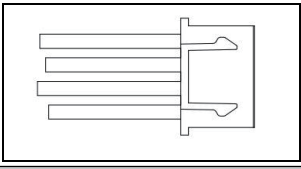
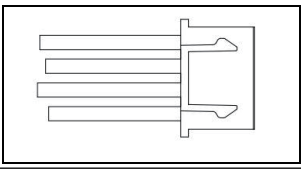




HXL-200D



HXL-200E

Wiring Definitions

Direct Wire Connection		Current			
	Electrical Definition	Wire Color	Symbol		
	Power Positive	Red	Vcc+		
	Signal	Black	Iout		
Voltage		Wire Color	Symbol		
	Power Positive	Red	Vcc+		
	Signal	Green	Vout		
	Power Negative	Black	Gnd		
Direct Wire Connection	Pin	2-wire (4~20mA)	3-wire (0.5~4.5V DC)		
Pin Definition					
	A	Invalid/PE	GND		
	B	Power (Vcc+)	Power(Vcc+)		
	C	Signal(Iout)	Signal (Vout)		
XH-2.54-4PIN	IIC Digital Signal	Wire Color	Symbol		
	Power Positive	Red	VDD		
	Digital Signal	Yellow	SDA		
	Digital Signal	Green	SCL		
	Ground	Black	GND		
XH-2.54-4PIN	UART Digital Signal	Wire Color	Symbol		
	Power Positive	Red	Vcc+		
	Digital Signal	Yellow	TXD		
	Digital Signal	Green	RXD		
	Ground	Black	GND		
Hirschmann Connector	Pin	2-wire		3-wire	
		Wire Color	Definition	Wire Color	Definition
	1	Red	Vcc+	Red	Vcc+
	2	Green	Iout	Black	GND
	3	/	/	Green	Vout
	⊕	Black	Shielding	Yellow	Shielding
Aviation Connector	Pin	2-wire		3-wire	
		Wire Color	Definition	Wire Color	Definition
	1	Red	Vcc+	Red	Vcc+
	2	Green	Iout	Green	Vout
	3	/	/	Black	GND
	4	Black	Shielding	Yellow	Shielding

Ordering Guide

Product Model

HXL-200

Measurement Range

Optional: -1 to 0 to 1...600 bar (Customizable)

Electrical Connection

P= Packard Connector (HXL-200A) Z2= Direct Cable Connector (2pin) (HXL-200B)
 Z3= Direct Cable Connector(3pin) (HXL-200B) XH= Direct Cable XH2.54 Connector(4pin) (HXL-200C)
 M=M12 Aviation Connector (HXL-200D) H=Hirschmann Connector (HXL-200E)

Pressure Type

G=Gauge Pressure A=Absolute Pressure N=Negative Pressure

Output Signal

01= 0.5~4.5V(Ratio Voltage) 02= 0.5~4.5V(Absolute Voltage) 03= 0~5V(Ratio Voltage)
 04= 0~5V(Absolute Voltage) 05= 0.35~2.7V(Ratio Voltage) 06= 0.132-4.5V(Ratio Voltage)
 07= 4-20mA(2-wire) 08= IIC digital signal X= Custom

Supply Voltage

V1= 5V DC V2= 8~32V DC V3=3-5.5V DC

Pressure Connector

10= G1/4" External Thread 11= G1/2" External Thread 12= M20×1.5 External Thread
 13= M10×1 External Thread 14= 7/16~20 UNF Internal Thread 15= 1/4~18NPT External Thread
 16= R1/4" External Thread 17= M14×1.5 External Thread 18= M16×1.5 External Thread
 19= NPT1/4" External Thread X= Custom

Accuracy

E1=1%F.S. E2=0.5%F.S. EX=Custom

Protection Rating

IP67 (Standard) X=Custom

Cable Length

000000=None 001000=1 m 002000=2 m X=Custom

200A 20 Z2 G 01 V1 12 E1 X 002000

Ordering Example: HXL-200A20Z2G01V112E1X002000