



HUAXINLIAN

Professional Pressure Sensor Manufacturer

HXL-100

Compressor Cooling Pressure Transmitter

「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-100

Compressor Cooling Pressure Transmitter

Features

- Wide Temperature Range, -35°C to 105°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-100A

HXL-100B

HXL-100C

HXL-100D

Applications

- Industrial Refrigeration Units
- Air Conditioning and Refrigeration Units
- Process Control
- Compressed Air Systems

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Description

HXL-100 Series Transmitter is a fully independent and self-developed product by Huaxinlian, designed for air compressor refrigeration pressure applications. Its core sensor utilizes a self-developed 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 particularly well-suited for applications in hydraulic energy, railway transportation, petrochemical industry, mechanical control, and air compression systems.

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

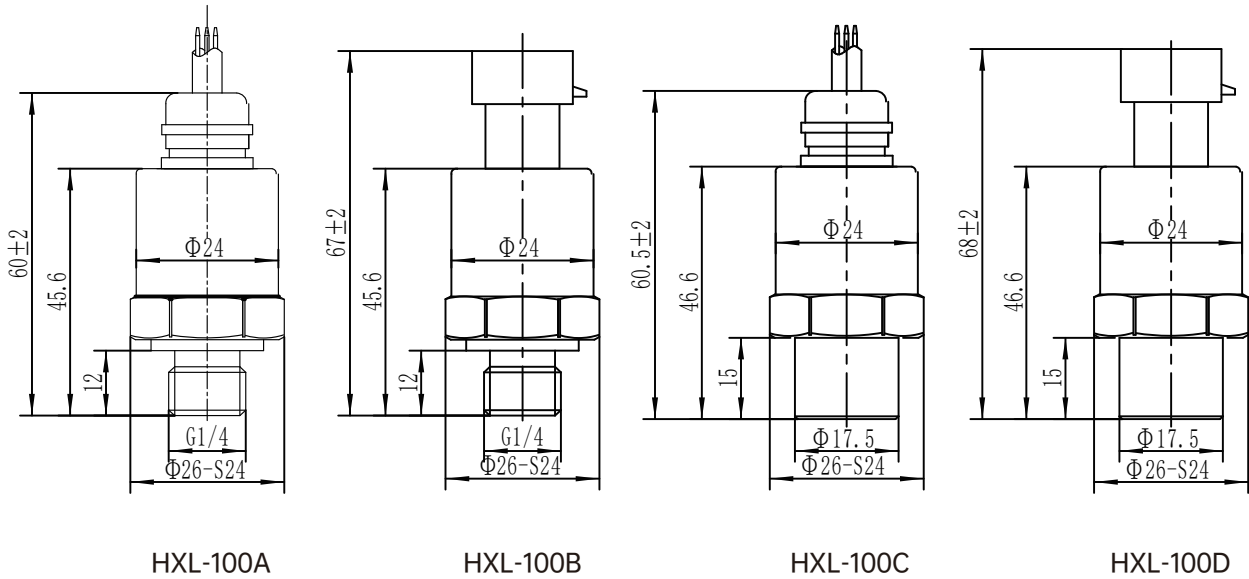
Measuring range	
Unit	Measuring Range
bar	-1 to 1...0 to 0.1...0 to 400
mbar	-1000 to 1000...0 to 100...0 to 400000
MPa	-0.1 to 0.1...0 to 0.01...0 to 40
kPa	-100 to 100...0 to 10...0 to 40000
Pa	-100000 to 100000...0 to 10000...0 to 40000000
psi	-14.5 to 14.5...0 to 1.45...0 to 5800
mmHg	-750 to 750...0 to 75...0 to 300025
inHg	-29.53 to 29.53...0 to 2.953... 0 to 11812

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

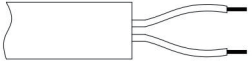
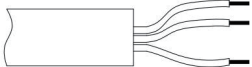

Specifications

Model	HXL-100 Series				
Pressure Type	Gauge Pressure, Negative Pressure, Absolute Pressure				
Range	-1-0-1...400 bar (Customizable)				
Accuracy	≤±0.50%F.S.(Standard); ≤±1%F.S; Customizable				
Electrical Performance	2-wire	3-wire			
Output Signal	4~20mA	0~5V	0~10V	0.5~4.5V	10~90% Ratio
Supply Voltage	8~32V DC	8~32V DC	12~32V DC	8~32V DC/5V DC	3.3~5.5V DC
Operating Temperature	-35°C~105°C				
Storage Temperature	-40°C~105°C				
Electrical Connection	Packard Connector , Straight Connection				
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), 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)				
Insulation Resistance	>100M Ω @50V DC				

Dimensions and Wiring Definitions



Wiring Definitions

Current	Direct Wire Connection		
	Wiring Definitions	Wire Color	Symbol
	Power Positive	Red	Vcc+
	Signal	Black	Iout
Voltage	Wiring Definitions	Wire Color	Symbol
	Power Positive	Red	Vcc+
	Signal	Green	Vout
	Power Negative	Black	GND
Packard Metri-Pack	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)

Ordering Guide

Product Model

HXL-100

Measurement Range

Optional: -1 to 0 to 1...400 bar (Customizable)

Electrical Connection

P=Packard Connector Z2=Direct Cable Connector (2pin)
 Z3=Direct Cable Connector (3pin)

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= 0~10V (Ratio Voltage) 06= 0~10V (Absolute Voltage)
 07= 4~20mA (2-wire) X= Custom

Supply Voltage

V1= 5V DC V2= 8~32V DC
 V3= 3~5.5V DC V4= 12~32V 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
 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

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 100 20 P G 01 V1 12 E1 X 002000

Ordering Example: HXL-10020PG01V112E1X002000