

HXL-100E

Air Compressor 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-100E

Air Compressor Pressure Transmitter

Features

- Wide Temperature Range, -40°C~135°C
- Compact Structure with Excellent Cost-Effectiveness
- Algorithm Compensation and Correction Technology
- 400% F.S. Overload Resistance Performance
- High Impact Resistance
- Multiple Signal Outputs
- Supports Customization for Various Specifications

Applications

- Air Compressor System

Description

The HXL-100E series transmitter is a pressure product for air compressors developed completely independently. The core sensor uses a self-developed ceramic core.

The product is resistant to high temperature, corrosion, high stability, high reliability, high overload pressure, and high burst pressure. The product is small in size, has excellent overall performance, and is cost-effective, suitable for the field of air compressor systems.



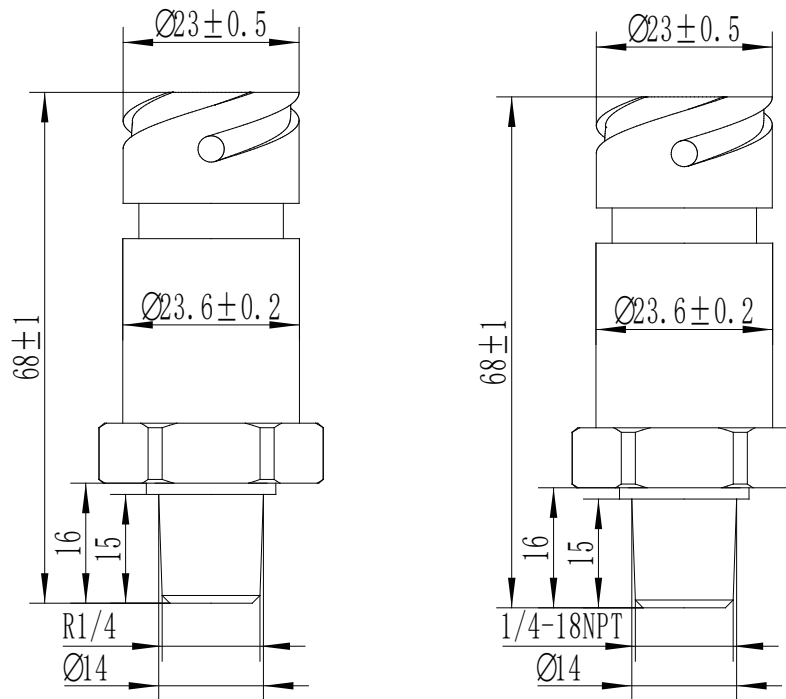
Measuring range	
Unit	Measuring Range
bar	-1 to 1...0 to 0.1...0 to 400
mbar	-1000 to 1000...0 to 100...0 to 400000
MPa	-0.1 to 0.1...0 to 0.01...0 to 40
kPa	-100 to 100...0 to 10...0 to 40000
Pa	-100000 to 100000...0 to 10000...0 to 40000000
psi	-14.5 to 14.5...0 to 1.45...0 to 5800
mmHg	-750 to 750...0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

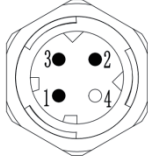
Specifications

Model	HXL-100E Series				
Pressure Type	Gauge Pressure, Negative Pressure, Absolute Pressure				
Range	-1-0-3...70bar (Customizable)				
Accuracy	$\leq \pm 0.50\% \text{F.S. (Standard)}$; $\leq \pm 1\% \text{F.S.}$; 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	3~5.5V DC
Operating Temperature	-40°C~135°C				
Storage Temperature	-40°C~135°C				
Electrical Connection	Aviation connector (DIN72582-1); Customizable				
Pressure Connection	External Thread	1/4"-18NPT、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 flat film (Standard)			
	O-ring	NBR (Standard), PTFE/CR/EPDM (Optional)			
Protection Rating	IP65、IP67、Customizable				
Response Time	$\leq 20\text{ms}$				
Overload Pressure	400%F.S.				
Long-term Stability	0.1%F.S.±0.05%/year				
Burst Pressure	> 600% F.S.				
Insulation Resistance	>100M Ω @50V DC				

Dimensions and Wiring Definitions



Wiring Definitions

Aviation plug	PIN	Wiring Definition
	1	+Supply
	2	-Supply
	3	Output
	4	Open to atmosphere/Sealed

Ordering Guide

Product Model

HXL-100E

Measurement Range

Optional: -1-0-3...70 bar (Customizable)

Electrical Connection

K= DIN72585-1 Aviation plug
X= Custom

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

100E 17 K G 01 V1 15 E1 000000

Ordering Example: HXL-100E17KG01V115E1000000