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# CXPTB-231 air-condition, compressor pressure transmitter

The high-pressure constant flow pump has flow rate specifications of 10ml, 50 ml, 100 ml, 200 ml, 500 ml, 1000 ml and 3000 ml/min to meet the needs of analysis, semi-preparation and preparation.



## Brief introduction

1.The electronic automotive sensor with the feature of compact configuration, high reliability, easy to install, vibration proof and all-metal sealed pressure system which withstands more than 10 million pressure cycles without failure.

2.This series is used to measure the pressure of engine oil, brake system, fuel, diesel engine high-pressure common rail test system in the automotive industry. It can also be used to measure the pressure for liquid, gas and steam.

3.Application:Engine oil,ABS system,Fuel pump,Fuel cylinder high-pressure common rail system,Automotive & air-condition pressure measuring.

## Main features

- 1.Superior long term stability
- 2.Temperature compensated over wide range
- 3.Low power consumption
- 4.Excellent repeatability/Hysteresis
- 5.Special design for customer
- 6.Many OEM options

## Main parameters

Range	0....1bar to 0....60bar
Accuracy	0.5%FS ; 1%FS
Nonlinearity	0.02%FS
Reliability	0.05%FS
Output	0.5-4.5V; 0-5V ; 1-5V; 4-20mA,
Input voltage	5VDC, 24(12-36V)DC
Operating Temperature	20C-100C
Compensated temp	-10~65°C(Standard Compensation)
Overload pressure	150%FS
Material	304 SS
Electric connector	Special Packard connector
Process connector	1/4NPT, 1/8-27NPT, 7/16-20UNF (Optional)

# CXPTB-232 ceramic piezoresistive sensor



## Brief introduction

1.The electronic automotive sensor with the feature of compact configuration, high reliability, easy to install, vibration proof and all-metal sealed pressure system which withstands more than 10 million pressure cycles without failure.

2.This series is used to measure the pressure of engine oil, brake system, fuel, diesel engine high-pressure common rail test system in the automotive industry. It can also be used to measure the pressure for liquid, gas and steam.

3.Application:Engine oil,ABS system,Fuel pump,Fuel cylinder high-pressure common rail system,Automotive & air-condition pressure measuring.

## Main features

- 1.Superior long term stability
- 2.Temperature compensated over wide range
- 3.Low power consumption
- 4.Excellent repeatability/Hysteresis
- 5.Special design for customer
- 6.Many OEM options

## Main parameters

Range	0....1bar to 0....60bar
Accuracy	0.5%FS ; 1%FS
Nonlinearity	0.02%FS
Reliability	0.05%FS
Output	0.5-4.5V; 0-5V ; 1-5V; 4-20mA,
Input voltage	24(8-36V)DC
Operating Temperature	20c-100c
Compensated temp	10~65c(Standard Compensation)
Overload pressure	150%FS
Material	304SS
Electric connector	Packed connector
Process connector	Z1/4, 1/4NPT, 1/8NPT (Optional)

# CXPTB-240 automotive sensor

## Brief introduction

1.The electronic automotive sensor with the feature of compact configuration, high reliability, easy to install, vibration proof and all-metal sealed pressure system which withstands more than 10 million pressure cycles without failure.

2.This series is used to measure the pressure of engine oil, brake system, fuel, diesel engine high-pressure common rail test system in the automotive industry. It can also be used to measure the pressure for liquid, gas and steam.

3.Application:Engine oil,ABS system,Fuel pump,Fuel cylinder high-pressure common rail system,Automotive & air-condition pressure measuring.

## Main features

- 1.Superior long term stability
- 2.Temperature compensated over wide range
- 3.Low power consumption
- 4.Excellent repeatability/Hysteresis
- 5.Special design for customer
- 6.Many OEM options



## Main parameters

Range	0....1bar to 0....60bar
Accuracy	0.5%FS ; 1%FS
Nonlinearity	0.02%FS
Reliability	0.05%FS
Output	0.5-4.5V; 0-5V ; 1-5V; 4-20mA,
Input voltage	5VDC, 24(12-36V)DC
Operating Temperature	20C-100C
Compensated temp	-10~65°C(Standard Compensation)
Overload pressure	150%FS
Material	304 SS
Electric connector	Packed connector
Process connector	1/4NPT, 1/8-27NPT, 7/16-20UNF (Optional)

# CXPTB101 series Pressure Sensor

## Brief introduction

1. Used for measuring the gauge and absolute pressure in liquids and gases
2. Operates on the import silicon oil-filled measuring principle. the pressure is converted into an electrical signal
3. Application: Automotive industry, Oil and off-shore industry, Freon and ammonia refrigeration, Machine tools and automatic machinery, Standard hydraulic and pneumatic equipments, Engine monitoring and control, High side and low side air conditioning

## Main features

1. Measuring ranges from 0~0.01 to 100 MPa
2. High precision pressure transmitter
3. Advanced silicon measuring technology
4. Excellent accuracy and long term stability
5. LED display can be selected



## Main parameters

Measuring ranges	0.01 to 100 MPa
Over pressure safety	2 X Rated range, the max pressure is 150MPa
Power supply	14-30V DC 10-30V DC
Output signal	0-10 V / 0(1)-5V / 4-20mA
Electric connection	3-wire 3-wire / 2-wire etc.
Burden	$\geq 10\text{ K } \Omega \geq 5\text{ K } \Omega / \leq (U_b - 10\text{V}) / 0.02\text{A}$
Accuracy	$\leq \pm 0.5\%$ of span
Non – linearity	$\leq \pm 0.2\%$ of span
Repeatability	$\leq \pm 0.1\%$ of span
Pressure hysteresis	$\leq \pm 0.1\%$ of span
Long term stability	$\leq \pm 0.2\%$ of span / year
Reference temperature	25 C
Operating temperature ranges	-30 ~ + 100 C
Compensated temperature range	0 ~ + 70 C
Thermal shift	$\leq \pm 0.25\%$ of span / 10K

Response time	≤ 2ms
Electromagnetic compatibility	EN 61 326
Process connection	G1/4-DIN3852,G1/4B-EN837,G1/2-DIN3852,G1/2B-EN837,1/4-18NPT,7/16-20UNF,G1/4 (female thread) otherson customized
Process media	Stainless steel ,O-ring:NBR
Mechanical vibration	Max. at 20g,15-2000Hz (to IEC 68-2-6)
Mechanical shock	100g/1mesc to IEC 68-2-27
Enclosure rating	IP65 to EN 60 529,with DIN43650 connector,IP67 to EN 60 529,with cable,and m12x1 connector
Electrical connection	DIN43650,cable,m12x1 (4-pole) connector
Cable length	2m,otherson customized
Nominal position	unrestricted

Technical data	
Measuring ranges	0.01 to 100 MPa

Pressure reference	Gauge pressure,absolute pressure
Over pressure safety	2 X Rated range,the max pressure is 150MPa
Electrical specifications	
Power supply	14-30V DC 10-30V DC
Output signal	1 0-10 0(1)-5V / 4-20mA other signal outputs on request
Electric connection	3-wire 3-wire / 2-wire
Burden	≥10 K Ω ≥5 K Ω / ≤( U <sub>b</sub> -10V )/0.02A
Performance specifications	
Accuracy	≤ ± 0.5 % of span
Non – linearity	≤ ± 0.2 % of span
Repeatability	≤ ± 0.1 % of span

Pressure hysteresis	$\leq \pm 0.1$ % of span
Long term stability	$\leq \pm 0.2\%$ of span / year (at reference conditions)
Reference temperature	25 C
Operating temperature ranges	-30 ~ + 100 C
Compensated temperature range	0 ~ + 70 C
Thermal shift	$\leq \pm 0.25$ % of span / 10K
Response time	$\leq 2$ ms ( $\leq 10$ ms at medium temperature below $<-30^{\circ}\text{C}$ for pressure ranges up to 2.5MPa or with flush diaphragm)
Electromagnetic compatibility	EN 61 326
Physical specifications	
Process connection	G1/4-DIN3852,G1/4B-EN837,G1/2-DIN3852,G1/2B-EN837,1/4-18NPT,7/16-20UNF,G1/4 (female thread) other connections available on request
Process media	Stainless steel ,O-ring:NBR
Mechanical vibration	Max. at 20g,15-2000Hz (to IEC 68-2-6)
Mechanical shock	100g/1mesc to IEC 68-2-27
Enclosure rating	IP65 to EN 60 529,with DIN43650 connector,IP67 to EN 60 529,with cable,and m12x1 connector
Electrical connection	DIN43650,cable,m12x1 (4-pole) connector
Cable length	2m,other length on request
Nominal position	unrestricted

# CXPTB-102 series industrial pressure transmitter

CXPTB-102 series pressure transmitter, pressure sensor using the import sensitive element, Temperature compensation of laser resistor trimming by using computer, Using integrated wiring box design. With special terminal and digital display, convenient repair, installation, calibration . This series of products suitable for petroleum, chemical, metallurgy, water conservancy, electricity, light industry, scientific research, environmental protection and other various kinds of enterprises and institutions, to realize the measurement of fluid pressure and is suitable for various occasions all-weather environment and all kinds of corrosive fluid.

## Main Features

- Many range selection;
- Digital, Liquid crystal display of the pressure;
- Zero point, range and convenient debugging;
- Reverse polarity protection and current limiting protection;
- The anti lightning, anti impact;
- Intrinsically safe explosion-proof;
- Small size, beautiful appearance, high performance price ratio;
- High precision, high stability, high reliability;



## Technical Function

Measuring range	-0.1~0~100MPa	Accuracy class	0.2% ,0.5%
Overload capacity	200%	Output signal	4~20mA/RS485
Stability	≤0.1% /year	Supply voltage	18~36VDC
Display mode	4digitalLED	Display range	-1999~9999
Ambient temperature	-20C-70C	Relative humidity	≤80%
Mounting thread	M20*1.5	Interface material	stainless steel

# CXPTB-103 High temperature pressure transmitter

CXPTB-103 Type pressure transmitter adopts with stainless steel isolation diaphragm piezoresistive sensor as signal measuring element, and through the computer automatic test, of zero and sensitivity temperature compensation in wide temperature range using laser trimming technology. the amplifying circuit is located in a stainless steel casing., change the sensor signals to standard output signal. The whole product is rigorously tested components, semi-finished and finished products and aging.

The products with good reliability, Wide adaptability, product flexibility and diversity, Widely used in petroleum, chemical, metallurgy field pressure, power, hydrology and other industrial process measurement and control.

## Feature

Shell protection class IP65

Contact with the media material for stainless steel, corrosion resistance

Pressure measurement for room temperature medium, can work stably for a long time

Impact resistance, shock resistance, corrosion resistance



## Technical parameters

Measuring range	-0.1~0~100Mpa	Control accuracy	$\leq \pm 0.5\%FS$
Stability	$\leq 0.2\% / \text{year}$	Display precision	$\pm 0.5\%FS$
Electrical source range	24V $\pm 20\%$	Lead the way	Hersman
Production class	IP65	Screw connection	
Ambient temperature	-30C-70C	Medium temperature	-40C-85C
Storage temperature	-40C-85C	Relative humidity	0~80%

## CXPTB-121/121T melt pressure transmitter

CXPTB-121/121T Series Melt Pressure Transmitter (Flexible stem) can measure the pressure and temperature in one point. The model PT124B-121T is with thermocouple. This series can be utilized together with the PY Series Intelligent Digital Pressure Instrument. Zero & full span can be adjustable, amplify signal output can be connected with PLC, with advantages of high precision and reliable pressure measuring and good quality and internal 80% calibration.

### Application

Chemical fiber Equipment  
 Plastic and Rubber manufacturing equipment  
 Medicine & Food process equipment  
 Measurement and Control all kinds of melt fluid

### Feature

Stainless steel welding  
 Easy to install  
 Zero and span adjustable  
 Various amplified signals optional  
 Internal 80% shunt calibration  
 Good stability and anti-jamming capability  
 Excellent stability and repeatability



### Specification

Range:	0...3.5Mpa to 0...150MPa
Output:	0~5V; 0~10V; 4-20mA
Accuracy:	±1%FS; ±1.5%FS
Excitation:	24VDC
Repeatability:	±0.2%
Construction:	Wheatstone bridge
Bridge resistance:	350 ohms±10%
Overload pressure:	1.5×FSO
Internal Calibration:	80%±1%
Insulation Resistance:	1000Megohms @50Vdc
Max Diaphragm Temp:	0~350C
Thermocouple type:	J,K,E,PT100 Optional (PT124B-121T)
Electric connector:	5PIN, 6PIN
Process connector:	1/2"-20UNF, M14×1.5, M18×1.5 (Customer Design)

# CXPTB-210 industrial pressure transmitter 210 type

## Brief introduction

1. Special designed to cover the majority of industrial applications with instruments readily available from stock
2. Compact design and robust construction make these instruments suitable for all application in machine construction, process control, laboratory or quality and materials testing equipment.
3. Application: Mechanical Engineering Industry, Hydraulic and level measurement, Gas tank pressure monitoring, Industrial test and control, General industrial applications

## Main features

1. Various industrial standard signal output
2. Various electrical connector available
3. Certain stock for shortening delivery time
4. High accuracy, free of calibration
5. Compact dimension design



## Main parameters

Range	-1~0-2000bar
Accuracy	0.5%FS; 1%FS
Nonlinearity	Full span x 0.2%
Repeatability	Full span x 0.05%
Output	4-20mA(Two wire ), 0-5V, 0-10V(Three wire); 2mV/V, 3.3mV/V (PT124S-210)
Input voltage	24(12~36)VDC (Amplify signal), 10(6~12)VDC (mV output)
Operating Temperature	-40~80C
Compensated temperature	0~70C
Overload pressure	150%FS
Material:	Stainless steel or Hardening Aluminum
Electric connector:	Hirschman(DIN),M12,4pin, Bendix connector, grand cable(Customer design)
Process connector	G1/4, G1/2, 1/2NPT, 1/4NPT, M12*1.5 (Customer design)

## Electric Connection code

Connector type1	Function	Color	5PIN	Connector type2	Function	Color	
5PIN connector 0-5V; 0-10V 0.5-4.5V,1-5V	S+	Blue	1	Grand cable 0-5V; 0-10V 0.5/4.5V,1-5 V	S +	Blue	
	E+-	Red	2		E +	Red	
	E-/S-	Black	3		E-/S-	Yellow/White	
5PIN connector 1.5mV/V, 2mV/V 3.33mV/V	S+	Blue	1	Grand cable 1.5mV/V, 2mV/V 3.33mV/V	S+	Blue	
	E +	Red	2		E +	Red	
	S -	White	3		S -	White	
	E -	Yellow	4		E -	Yellow	
	C	Black	5		C	Black	
5PIN connector 4-20mA	E+	Red	1	Grand cable 4-20mA	E+	Red	
	S+	Black	2		S+	Black	
Connector type3	Function	Color	4PIN	Connector type4	Function	Color	4PIN
Hirschman 0-5V; 0-10V 0.5-4.5V,1-5 V	E+	Red	1	M12×1 connector 0-5V; 0-10V 0.5-4.5V,1-5 V	E +	Brown	1
	S+	Blue	2		S +	Blue	3
	E -/S-	Black	3		E -/S-	White	4
Hirschman 4-20mA	E+	Red	1	M12×1 connector 4-20mA	E+	Brown	1
	S+	Black	2		S+	Blue	3

## Ordering Guide

Model	Range	Output	Screw Thread	connection	Other requirement
CXPTB-210	---	---	---	---	---
Example: CXPTB-210-50Bar-4/20mA-G1/2-Hirschman					

# CXPTB-211 industrial pressure transmitter (intelligent type)

## Brief introduction

- 1.Special designed for use in hazardous locations.
- 2.It is an all welded construction that features various threads for installation
- 3.Optional pressure fittings and electrical terminations are available. With high compensated technology,
- 4.Compact design and robust construction make these instruments suitable for all application in machine construction, process control, laboratory or quality and materials testing equipment.
- 5.Application Mechanical Engineering Industry, Hydraulic and level measurement, Gas tank pressure monitoring, Industrial test and control, General industrial applications

## Main features

- 1.Pressure range-1~0 to 0-2000bar
- 2.HART digital communication
- 3.Better than 0.5% combined error
- 4.Configurable via handled
- 5.Output supplied directly to DCS or PLC
- 6.Approved for hazardous environments



## Main parameters

Range	-1~0~200MPa
Accuracy	0.25%FS, 0.5%FS
Nonlinearity	Full range x 0.2%
Reliability	Full range x 0.05%
Output	4-20mA, HART option
Input voltage	24(9-36V)DC (Standard)
Operating temperature	-20-80C
Compensated temperature	0~70C
Overload pressure	150%FS
Wetted Parts	stainless steel
Electric connector	Hirschman (DIN) , M12,4pin, 5pin connector, grand cable and optional
Process connector	G1/4, G1/2, 1/2NPT, 1/4NPT, M12*1.5 (Customer design)

# CXPTB-212 pressure transmitters

## Brief introduction

1. Specially designed to cover the majority of industrial applications where high accuracy measuring is needed
2. Compact design and robust construction make these instruments suitable for all applications in machine construction, process control, laboratory or quality and materials testing equipment
3. Application: Mechanical Engineering Industry, Hydraulic and level measurement, Gas tank pressure monitoring, Industrial test and control, General industrial application

## Main features

1. Various industrial standard signal output
2. Various electrical connectors available
3. Certain stock for shortening delivery time
4. High accuracy measuring
5. Compact dimension design



## Main parameters

Range	-1~0~200MPa
Accuracy	0.25%FS
Nonlinearity	Full range x 0.2%
Reliability	Full range x 0.05%
Output	4-20mA (Two wire) , 0-5V, 0-10V (Three wire )
Input voltage	24(12~36)VDC
Operating Temperature	0~80C
Compensated temp	0~70C
Overload pressure	150%FS
Material	Stainless steel or Hardening Aluminum
Electric connector	Hirschman (DIN) , M12 & 4 PIN, Bendix connector, cable, etc (Customer design)
Process connector	G1/4, G1/2, 1/2NPT, 1/4NPT, M12*1.5 etc (Customer design)

## Electric Connection code

Connector type1	Function	Color	5PIN	Connector type2	Function	Color	
5PIN connector 0-5V; 0-10V 0.5-4.5V,1-5V	S+	Blue	1	Grand cable 0-5V; 0-10V 0.5/4.5V,1-5 V	S +	Blue	
	E+-	Red	2		E +	Red	
	E-/S-	Black	3		E-/S-	Yellow/White	
5PIN connector 1.5mV/V, 2mV/V 3.33mV/V	S+	Blue	1	Grand cable 1.5mV/V, 2mV/V 3.33mV/V	S+	Blue	
	E +	Red	2		E +	Red	
	S -	White	3		S -	White	
	E -	Yellow	4		E -	Yellow	
	C	Black	5		C	Black	
5PIN connector 4-20mA	E+	Red	1	Grand cable 4-20mA	E+	Red	
	S+	Black	2		S+	Black	
Connector type3	Function	Color	4PIN	Connector type4	Function	Color	4PIN
Hirschman 0-5V; 0-10V 0.5-4.5V,1-5 V	E+	Red	1	M12×1 connector 0-5V; 0-10V 0.5-4.5V,1-5 V	E +	Brown	1
	S+	Blue	2		S +	Blue	3
	E-/S-	Black	3		E-/S-	White	4
Hirschman 4-20mA	E+	Red	1	M12×1 connector 4-20mA	E+	Brown	1
	S+	Black	2		S+	Blue	3

# CXPTB-213 industrial pressure transmitter

## Brief introduction

1. Adopts ceramic or diffused silicon sensor chip, with stainless steel encapsulation, smart figure.

2. Especially suitable in the occasion where Installation space is restricted and has the feature of wide range temperature compensation, high accuracy, non-calibration, wide range, and OEM Process.

3. Widely used in hydraulic pressure, auto-controlling house, constant pressure water supply, loading machine, and liquid pressure measuring and controlling in automatization fields

4. Application: Mechanical Engineering Industry, Hydraulic and level measurement, Gas tank pressure monitoring, Industrial test and control, General industrial applications

## Main features

1. Various industrial standard signal output
2. Various electrical connector available
3. Certain stock for shortening delivery time
4. High accuracy, free of calibration
5. Compact dimension design



## Main parameters

Range	-1~0~160MPa
Accuracy	0.5%FS
Nonlinearity	0.2%FS
Reliability	0.2%FS
Output	4-20mA (2 Wire) ,0-5V, 0.5-4.5V
Input voltage	24(8-36V)DC
Operating Temperature	20~80C
Compensated temp	0~75C
Overload pressure	150%FS
Material	316 stainless steel
Electric connector	Min DIN, M12, Bendix connector, cable, Etc(Customer design)
Process connector	
G1/4, G1/2, 1/2NPT, 1/4NPT, M12*1.5(Customer design)	

# CXPTB-21Q industrial Pressure transmitter

## Brief Introduction

1. Designed with flush diaphragm and particularly suitable for the measurement of viscous fluids or media containing particulates that may clog the pressure connection of standard industrial transmitters

2. All wetted parts are made of stainless steel and are hermetically welded.

3. Application: Mechanical engineering, Hydraulics/Pneumatics, General industrial applications, Food & Beverage,

## Main features

1. Pressure Range: 0-5 to 0-700bar
2. Various output signal for option
3. Flush diaphragm
4. Excellent corrosion-proof capability
5. Compact dimension, high quality



## Main parameters

Range	16bar, 20bar, 25bar, 40bar, 60bar, 100bar, 160bar, 250bar, 400bar, 600bar, 700bar
Accuracy	0.25%FS; 0.5%FS
Nonlinearity	0.2%FS
Reliability	0.05%FS
Output	4-20mA (2 Wire), 0-5V; 0.5-4.5V
Input voltage	24(12~36)VDC (Amplify signal); 5VDC
Operating Temperature	40~80C
Compensated temp	0~70C
Overload pressure	150%FS
Material	Stainless steel or Hardening Aluminum
Electric connector	Hirschman(DIN), M12 & 4 PIN, Bendix connector, cable, (Customer design)
Process connector	G1/2, 1/2BSP, 1/2NPT, M22 and etc

# CXPTB-21R industrial éressure transmitter

## Brief introduction

- 1.With stainless steel welding encapsulated component and lightning proof isolation device
- 2.CXPTB-215 (Explosion Proof :EXiallCT4-6) has the character of corrosion proof, wide range temperature compensation, excellent linearity and diversifying output signal
- 3.This series can be suitable for liquid pressure measuring for explosion proof in automatization fields
- 4.Application:Mechanical Engineering Industry,Hydraulic and level measurement,Gas tank pressure monitoring,Industrial test and control,General industrial applications

## Main features

- 1.Pressure Range:0-0.2bar to 0-600bar available
- 2.Various standard Industrial signal output
- 3.All stainless steel and anticorrosive
- 4.Stronger anti-jamming ability
- 5.High stability & high sensitivity
- 6.Intrinsically safe & explosion proof construction



## Main parameters

Range	0-1to 0-600bar
Accuracy	0.25%FS;0.5%FS
Nonlinearity	0.2%FS
Reliability	0.05%FS
Output	4-20mA (2 Wire) , 0-5V; 0.5-4.5V
Input voltage	24(12~36)VDC (Amplify signal)
Operating Temperature	0~80C
Compensated temp	0~70C
Overload pressure	150%FS
Material	Stainless steel
Electric connector	Hirschman (DIN, M12 & 4 PIN, Bendix connector, cable customer design)
Process connector	G1/4, G1/2, 1/2NPT, 1/4NPT, M12*1.5,etc(Customer design)

# CXPTB-21S industrial éressure transmitter

## Brief introduction

1. Adopting global advanced electron ceramic technology
2. It has the character of overload resistance, high impact resistance, excellent linearity, lasting high stability, wide temperature range, corrosion proof, etc.
3. This series can be applied in Defense industry, scientific research, Space industry, Petroleum, Chemical industry, Electric power, Ocean and other fields.
4. Application: Defense industry, Scientific research, Space industry, Petroleum, Chemical industry, Electric power, Ocean and other fields

## Main features

1. Pressure Range: 0-10mbar to 0-10bar
2. Measuring element: no medium liquid
3. Ceramics technology,
4. High accuracy, stable capability, little temp-draft overload resistance, high impact resistance, excellent linearity
5. Lasting high stability
6. Wide temperature range, corrosion proof



## Main parameters

Range	0-1bar to 0-10bar
Accuracy	0.5%FS
Nonlinearity	0.2%FS
Reliability	0.05%FS
Output	4-20mA (2 Wire)
Input voltage	24(12~36)VDC (Amplify signal)
Operating Temperature	0~80C
Compensated temp	0~70C
Overload pressure	150%FS
Material	Stainless steel
Electric connector	Hirschman (Big DIN)
Process connector	G1/4, G1/2, 1/2NPT, 1/4NPT, M12*1.5(Customer design)

# CXPTB-217 industrial pressure transmitters

## Brief introduction

1. Adopting the special sensor chip with exact accuracy and high stability,
2. Suitable for pressure measuring and controlling in the clean asepsis conditions and the conditions which are easy to block
3. Application: Process engineering, Chemical industry, Foodstuff industry, Paper industry.

## Main features

1. Pressure Range: -1-0-100bar
2. Various signal output for industrial standard
3. Wide pressure range
4. High accuracy, high stability
5. Compact dimension design with high-standard quality



## Main parameters

Range	1...0...100bar
Accuracy	0.5%FS
Nonlinearity	0.2%FS
Reliability	0.05%FS
Output	4-20mA (2 Wire) , 0-5V; 0.5-4.5V
Input voltage	24(12~36)VDC (Amplify signal)
Operating Temperature	40~80C
Compensated temp	0~70C
Overload pressure	150%FS
Material	Stainless steel or Hardening Aluminum
Electric connector	Hirschman (DIN) , M12,4pin, Bendix connector, cable, etc (Customer design)
Process connector	0.5", 1", 1.5"

# CXPTB-218 industrial pressure transmitter

## Brief introduction

1.Special designed to cover the majority of industrial applications with instruments readily available from stock.

2.For application with higher temperature requirements an integrated cooling element enables medium temperature up to 150°C.

3.Compact design and robust construction make these instruments suitable for all application in machine construction, process control, laboratory or quality and materials testing equipment.

4.Application :Mechanical Engineering Industry,Hydraulic and level measurement, Gas tank pressure monitoring,Industrial test and control,General industrial applications

## Main features

- 1.Various industrial standard signal output
- 2.Various electrical connector available
- 3.Certain stock for shortening delivery time
- 4.High accuracy, free of calibration
- 5.Compact dimension design



## Main parameters

Range	0....1bar to 0....1000bar
Accuracy	0.5%FS
Nonlinearity	0.2%FS
Reliability	0.05%FS
Output	4-20mA (2 Wire) , 0-5V; 0.5-4.5V (3 wire)
Input voltage	24(12~36)VDC (Amplify signal)
Operating Temperature	20~125C
Compensated temp	0~70C
Overload pressure	150%FS
Material	Stainless steel or Hardening Aluminum
Electric connector	Hirschman (DIN) , M12,4pin, Bendix connector, cable, etc (Customer design)
Process connector	G1/4, G1/2, 1/2NPT, 1/4NPT, M12*1.5CCustomer design)

# CXPTB-219 industrial pressure transmitter

## Brief introduction

- 1.Designed for all fields of industrial pressure measurement.
- 2.With IP65 protection and 316 L seal construction, strong impact resistance, good linearity, long-term stability and repeatability, wide range temperature compensation, corrosion resistance, etc.
- 3.Typical applications are in the fields of shipping industry, Defense industry, scientific research, Space industry, Petroleum, Chemical industry, Electric power, Ocean and other fields.
- 4.Application :Mechanical Engineering Industry,Hydraulic and level measurement,Gas tank pressure monitoring,Industrial test and control,General industrial application.

## Main features

- 1.Various industrial standard signal output
- 2.Various electrical connector available
- 3.Certain stock for shortening delivery time
- 4.High accuracy, free of calibration
- 5.Compact dimension design



## Main parameters

Range	1bar, 1.6bar, 2.5bar, 4bar, 6bar, 10bar, 16bar, 25bar, 40bar, 60bar, 100bar, 160bar, 250bar, 400bar, 600bar, 1000bar
Accuracy	0.5%FS
Nonlinearity	0.2%FS
Reliability	0.05%FS
Output	4-20mA (2 Wire) , 0-5V; 0.5-4.5V (3 wire)
Input voltage	24(12~36)VDC (Amplify signal)
Operating Temperature	20~125C
Compensated temp	0~70C
Overload pressure	150%FS
Material	Stainless steel
Electric connector	Hirschman (DIN) , M12(circular connector), Bendix connector, direct cable grand
Process connector	G1/4, G1/2, 1/2NPT, 1/4NPT, M12*1.5 (Customer design)

## CXPTB-100 series Pressure Transmitter

Pressure transmitter adopts with stainless steel isolation diaphragm piezoresistive sensor as signal measuring element, and through the computer automatic test, using laser trimming technology to process zero and sensitivity temperature compensation in wide temperature range. The amplifying circuit is located in a stainless steel casing, and the sensor signals are converted to standard output signal. The whole product is rigorously tested components, semi-finished and finished products and aging.

The products with good reliability, wide adaptability, product flexibility and diversity, widely used in petroleum, chemical, metallurgy field pressure, power, hydrology and other industrial process measurement and control.

### Feature

316L stainless steel isolation diaphragm structure

The high precision, all stainless steel structure

The strong anti-interference, good long-term stability

The anti vibration, anti impact

It is suitable for measurement of normal temperature medium, can work stably for a long time

The form of diversification in structure, convenient in installation and use

The wide measurement range, can measure absolute pressure gauge pressure gauge pressure, and sealing



### Technical Parameters

Measuring range	-0.1-0~100Mpa	Accuracy	≤±0.5%FS
Stability	≤0.2% /year	Overload	200%FS
Source range	24V±20%	Lead	Hirschmann
Protection grade	IP65	Thread	M20*1.5
Ambient temperature	-10C-80C	Temperature drift	±0.02%FS/C
Storage temperature	-40C-85C	Humidity	0~80%

# CXPYB-241 automotive sensor

## Brief introduction

1.The electronic automotive sensor with the feature of compact configuration, high reliability, easy to install, vibration proof and all-metal sealed pressure system which withstands more than 10 million pressure cycles without failure.

2.This series is used to measure the pressure of engine oil, brake system, fuel, diesel engine high-pressure common rail test system in the automotive industry. It can also be used to measure the pressure for liquid, gas and steam.

3.Application:Engine oil,ABS system,Fuel pump,Fuel cylinder high-pressure common rail system,Automotive & air-condition pressure measuring.

## Main features

- 1.Superior long term stability
- 2.Temperature compensated over wide range
- 3.Low power consumption
- 4.Excellent repeatability/Hysteresis
- 5.Special design for customer
- 6.Many OEM options



## Main parameters

Range	0....1bar to 0....100bar
Accuracy	0.5%FS; 1.0%FS
Nonlinearity	0.02%FS
Reliability	0.05%FS
Output	0.5-4.5V; 0-5V ; 1-5V; 4-20mA,
Input voltage	5VDC, 24(12-36V)DC
Operating Temperature	-20C-100C
Compensated temp	-10~65C(Standard Compensation)
Overload pressure	150%FS
Material	304 SS
Electric connector	Packed connector
Process connector	1/4NPT, 1/8-27NPT, 7/16-20UNF (Optional)

# CXPTB-242 automotive sensor

## Brief introduction

1.The electronic automotive sensor with the feature of compact configuration, high reliability, easy to install, vibration proof and all-metal sealed pressure system which withstands more than 10 million pressure cycles without failure.

2.This series is used to measure the pressure of engine oil, brake system, fuel, diesel engine high-pressure common rail test system in the automotive industry. It can also be used to measure the pressure for liquid, gas and steam.

3.Application:Engine oil,ABS system,Fuel pump,Fuel cylinder high-pressure common rail system,Automotive & air-condition pressure measuring.

## Main features

- 1.Superior long term stability
- 2.Temperature compensated over wide range
- 3.Low power consumption
- 4.Excellent repeatability/Hysteresis
- 5.Special design for customer
- 6.Many OEM options



## Main parameters

Range	0....1bar to 0....1000bar
Accuracy	0.5%FS; 1.0%FS
Nonlinearity	0.02%FS
Reliability	0.05%FS
Output	0.5-4.5V; 0-5V ; 1-5V; 4-20mA,
Input voltage	5VDC, 24(12-36V)DC
Operating Temperature	20C-120C
Compensated temp	-10~65C(Standard Compensation)
Overload pressure	150%FS
Material	304 SS
Electric connector	Packed connector
Process connector	1/4NPT, 1/8-27NPT, 7/16-20UNF (Optional)

# CXPTB-243 auto pressure sensor

## Brief introduction

1.The electronic automotive sensor with the feature of compact configuration, high reliability, easy to install, vibration proof and all-metal sealed pressure system which withstands more than 10 million pressure cycles without failure.

2.This series is used to measure the pressure of engine oil, brake system, fuel, diesel engine high-pressure common rail test system in the automotive industry. It can also be used to measure the pressure for liquid, gas and steam.

3.Application:Engine oil,ABS system,Fuel pump,Fuel cylinder high-pressure common rail system,Automotive & air-condition pressure measuring,Mechanical engineering and Mobile hydraulics.

## Main features

- 1.Superior long term stability
- 2.Temperature compensated over wide range
- 3.Low power consumption
- 4.Excellent repeatability/Hysteresis
- 5.Special design for customer
- 6.Many OEM options



## Main parameters

Range	-1bar....100bar to 0....2000bar
Accuracy	0.5%FS; 1.0%FS
Nonlinearity	0.02%FS
Reliability	0.05%FS
Output	0.5-4.5V; 0-5V ; 1-5V; 4-20mA,
Input voltage	5VDC, 24(12-36V)DC
Operating Temperature	20C-120C
Compensated temp	-10~65C(Standard Compensation)
Overload pressure	150%FS
Material	304 SS
Electric connector	Packard connector or customer design
Process connector	1/4NPT, 1/8-27NPT, 7/16-20UNF (Optional)

# CXPTB-250 mud and earth pressure transmitter

## Description

CXPTB-250 adopts the firm diaphragm with special treatment; consummate dynamics transfer configuration design to make the flush diaphragm no damaged by the hardness grit of the tested medium. This model has the character of compact configuration, corrosion resistance, shock proof, wide range temperature compensation.

## Application

I Shield tunnel machinery

I Brick-making machinery

I Irrigation works, petroleum exploration and etc.



## Feature

I Wide range temperature compensation

I Various standard output

I Direct shield cables

I Corrosion resistance, shock proof

## Specification

I Range 0...50mBar to 0...350Bar

I Accuracy 0.5%FS; 1%FS Linear 0.2%

I Reliability 0.05%FS

I Output 4-20mA; 0-5V : 0.5-4.5V ; 1-5V

I Input voltage 24(12~36)VDC

I Operation Temperature -40~125°C

I Temperature compensation 0~80°C

I Over Pressure 150%FS

I Medium Material 316

I Electric connection Direct shield cable

I Pressure Port Flange

# CXPTB-280 explosion proof pressure transmitter

## Brief introduction

1. Adopted exact compensation technology, high accuracy high stability, explosion proof shell with LCD display and other new designs

2. It also insures the quality and capability, suitable for all kinds of industrial process liquid measuring and controlling.

3. Application: Hydraulic controlling, Building automation, Ship, Petroleum and chemical

## Main features

1. High accuracy

2. High stability

3. Explosion proof shell with LCD display



## Main parameters

Range	0...1bar to 0...2000bar
Accuracy	0.5%FS
Linear	0.02%FS
Output	4-20mA
Input voltage	24(12~36)VDC
Operating Temperature	40~125C
Compensated temp	-10C-70C
Overload pressure	150%FS
Material	SS316
Explosion class	Exiall CT4
Electric connector	Terminal Block
Pressure Port	G1/2, M12, M20x1.5 (optional)

# CXPTB-230 air-condition pressure transmitter

## Brief introduction

1. Adopts diffused silicon or ceramic piezoresistive sensor chip,

2. With compact configuration, easy to install, and special valve pin design for lead pressure port, perfect electrical performance and long-term stability make it the idea choice for the air-condition and compressor pressure measuring and controlling.

3. Applications :Laboratory test apparatus,Agricultural chemical equipment,Refrigeration and HVAC systems,Hydraulic pressure system,Gas tank pressure monitoring,Coolant pressure measuring.

## Main features

1. Superior long term stability
2. Temperature compensated over wide range
3. Low power consumption
4. Excellent repeatability/Hysteresis
5. Special design for customer
6. Many OEM options



## Main parameters

Range	0....1bar to 0....100bar
Accuracy	0.5%FS ; 1%FS
Nonlinearity	0.02%FS
Reliability	0.05%FS
Output	4-20mA, 0-5V, 0.5-4.5V,1-5V
Input voltage	24(8-36V)DC
Operating Temperature	20C-100C
Compensated temp	10~65C(Standard Compensation)
Overload pressure	150%FS
Material	Brass
Electric connector	Packed connector
Process connector	
G1/4, 1/4NPT,1/8NPT, 7/16-20UNF(Optional)	

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