







Shanghai Ziasiot Technology Co., Ltd. is an experienced manufacture of pressure transmitter, liguid level sensor, flow sensor, melt pressure transmitter(transducer), melt pressure gauge, burst plug, laboratory instruments etc, which are used in different industrial fields and process control.

We strive for innovation. advocate environmenta conservation, adhere to the concept of high guality and integrity and are committed to developing into a technology manufacturing group enterprise of sensor Internet of things and automated controsvstems. Shanghai Ziasiot Technology Co., Ltd is a high-tech enterprise headquarteredin Shanghai, members of whom have many years of experience in automation andextrusion industry. With years of professional knowledge, we established an organizational structure oriented by customer demand, and continuously innovated technology andobtained a number of nationa patents, which makes Ziasiot as an innovator in the fields of sensors. Internet of things ang automation control. In order to emnhasize our commitmentto auality ang reputation. the R & D and production process of all Ziasiot brands ensure to meet and possess RoHS, ISO, CE, CMC, CPA, ex and other certifications.















Redefine Pressure and **Temperature Measurement and Control**



SERVICEAREA

Sensoriot committed to the continuous improvement and development of productivity and manufacturing. In the field of industrial manufacturing, the ability to control pressure and temperature is an important key to improving productivity and manufacturing high-quality quality. Our design concept must keep its foresee ability, continuity and repeatability. In the rapidly changing industrial field, through continuous improvement of the production and research and development of process control equipment, and then contribute to the development of industrial automation and production

CUSTOMER RESOURCES

Our clients including companies from Fortune 500, distributors, government agencies and its comprehensive departments, etc, involving various market demands from manufacturing and industry. Products are mainly used in: plastic machinery, chemical fiber machinery, petrochemicals, water treatment engineering, power plants, aerospace, air compressors, robots, air conditioners, automobiles, plastics, packaging, medical, electronics, chemicals, rubber, textiles, food, Smart agriculture and smart cities and other fields; Products are exported to the United States, Canada, Germany, Italy, Britain, Austria, Malaysia, India, Pakistan, Australia and other countries







certificate

《Pressure Transmitter》,《Pressure Transducer》etc Drafting company of National Metrology Verification Regulations and National Metrology Technical Specifications Type Evaluation Outline

Not only the role of an innovator, we are more concerned about every production process.....







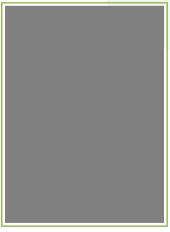




































Production >> Line



Diffused Silicon Pressure transmitter

Standard Series PT216

Flush Diaphragm Series PT216AS/PT216AH/PT216AM
Medium & High Temperature Series PT216HT/PT216HH
Explosion Proof Series PT216FS/PT216FH/PT216FM/PT216FJ

Strain Gauge Pressure transmitter

Standard Series PT210

Flush Diaphragm Series PT210AS/PT210AH

High Temperature Series PT210HT/PT210HH

High Pressure Series PT210CS/PT210CH

Explosion-Proof Series PT210FS/PT210FH/PT210FC

Ceramic Piezoresistive Pressure Transmitter PT218/PT218E/PT218LR

Throw-in Level Transmitter PT220/PT220E/PT220FE



Differential Pressure Transmitter



Compact Differential Pressure Transmitter PT230/PT230FH/PT230FN
Wind Differential Pressure transmitter PT230BN
High Pressure Explosion-proof Differential Pressure Transmitter PT3051
Diffused Silicon Pressure Core ZDX
Ceramic Pressure Core ZCX

Pressure Gauge

Analogue Diaphragm Pressure Gauge PG110S
Digital Diaphragm Pressure Gauge PG110X
Load Cell HL301 series /HL601 Series
Linear Position Transducer ZSP /ZSF/ ZSM/ ZSL
Temperature Sensor WSP
Intelligent Temperature Switch TP202
Intelligent Pressure Switch PT202





PT216 Standard Series

>> Diffused Silicon Pressure Transmitter



Description

PT216 standard series is designed and manufactured with high precision diffused silicon pressure core and precision compensation technology, It has the characteristics of wide measuring range, high precision and compact design

Product Feature

- Accuracy can be 0.25% F.S
- Protection level IP65

- Compact stainless steel housing package
- Multiple E-connection optional

Application

Hydraulic and pneumatic control; Construction machinery; Light industry, machinery and metallurgy; Industrial process and control

Technical Parameter					
Pressure range	-1 ~ C)bar;0~400 bar(-100) ~ 0kPa;0~40MPa)		
Pressure type		Gauge pressure,abso	olute pressure		
Accuracy		0.5% F.S; 0.25	5% F.S		
Electrical Performance	2-wire	3-wire 0-10V	3-wire	3-wire	
Output signal	4 ~ 20 mA	0~10V	0~5V	0.5~4.5V	
Power supply	6.5 ~ 32Vdc	12~32Vdc	10 ~ 32Vdc	5Vdc	
Overload resistance	< (U-6.5)/0.02	> 20k	> 20k	> 20k	
E-connection	M12x 1(4-pin),H	irschmann,PACK cor	nnector,water-proof	connector	
Process connection	G1/4,G1/2,1/4NPT,1/2NPT,M20x1.5,R1/4,R1/2,G1/4 etc				
Overload pressure		1.5 times rated	pressure		
Diaphragm Temp	-20 ~ 80°C				
Protection degree	IP65				
Response time	≤10msec				
Long term stability		0.2%FS/ye	ear		



PT216AS/AH/AM

>> Flush Diaphragm Pressure Transmitter



Description

This series is a sanitary special pressure transmitter with diffused silicon pressure core as sensitive element and 316L stainless steel diaphragm isolation. And with characteristics of stainless steel welded structure, high precision, non-cavity corrugated flat film, wide measuring range and on-site display

Product Feature

- Protection degree IP67
- Non-cavity corrugated flat film Multiple E-connection optional
 - Hygienic surface roughness Ra < 0.38 µm optional

Application

Food and beverage industry; Medical pharmaceutical industry; Biotechnology; Pigment, spraying; Chemical industry and paper industry

Technical Parameter				
Product structure	Core Front diaphragm	Flush Diaphragm / Hygienic Type		
Pressure range	-1~0bar;0~400bar	-1~0bar;0~40bar		
Pressure type	Gauge pressu	re,absolute pressure		
Accuracy	0.5% F.S; (0.25% F.S; 0.1%F.S		
Electrical Performance		2-wire		
Output signal	4	4 ~ 20 mA		
Power supply	12 ~ 30Vdc			
Overload resistance	<(U-12) /0.02			
E-connection	M12x 1(4-pin), Hirschmann, water-proof connector			
Diaphragm temperature	-20~125°C (direct connection typ);-20~160°C (heat sink type)			
Ambient temperature	-40 ~ 80°C			
Protection degree	IP67			
Process connection	G1/2,G3/4	I,G1,M20X1.5 etc		



PT216HT/PT216HH

High Temperature Pressure transmitter



Description

This series is of all stainless steel structure, adopt imported high temperature resistant pressure sensor as signal measurement sensitive element, the pressure of the measured medium is transmitted to the sensor through the heat dissipation structure on the transmitter. The sensor probe can work stably for a long time at a high temperature 200°C.

Product Feature

- Accuracy can be 0.25% F.S
- Multiple E-connection optional
- withstand medium and high temperature
- Compact stainless steel housing package
- Heat dissipation structure design, can

Application

High temperature fluids such as steam and hot oil; Boiler industry; Medical high temperature and high pressure disinfection

Technical Parameter					
Pressure range	-1	~ 0bar;0~400 bar(-	100 ~ 0kPa;0~40MF	Pa)	
Pressure type		Gauge pressure,	absolute pressure		
Accuracy		0.5% F.S;	0.25% F.S		
Electrical Performance	2-wire	3-wire 0-10V	3-wire	3-wire	
Output signal	4 ~ 20 mA	0~10V	0~5V	0.5~4.5V	
Power supply	6.5 ~ 32Vdc	12~32Vdc	10 ~ 32Vdc	5Vdc	
Overload resistance	< (U-6.5)/0.02	> 20k	> 20k	> 20k	
E-connection	M12x 1(4-pin), Hirschmann, PACK connector, water-proof connector				
Process connection	G1/4,G1/2,1/4NPT,1/2NPT,M20x1.5,R1/4,R1/2,G1/4 etc				
Overload pressure	1.5 times rated pressure				
Diaphragm Temp		-20 ~	200°C		
Electrical Temp	-20 ~ 80℃				
Protection degree	IP65				
Response time	≤10msec				
Long term stability		0.2%F	S/year		



PT216FS/PT216FH/ PT216FM/PT216FJ

Explosion-proof Pressure Transmitter



Description

This series are intrinsically safe pressure transmitters, which adopt imported diffused silicon core as components, and have strong earthquake resistance, long-term stability.

Product Feature

- Accuracy can be 0.25% F.S
- Protection degree IP65

• 4 ~ 20mA output

Application

Drilling platform; Petrochemical and natural gas control system; Explosion-proof industrial process measurement and control

	Technical Parameter
Pressure range	0 ~ 100 bar, 0 ~ 2000 bar(0~1MPa.0~200MPa)
Pressure type	Gauge pressure,absolute pressure
Accuracy	0.5% F.S; 0.25% F.S
Output signal	4 ~ 20 mA
Power supply	12 ~ 30Vdc
E-connection	Leading wire
Overload pressure	1.5 times rated pressure
Working temperature	-20 ~ 80°C
Protection degree	IP65
Explosion-proof grade	Exia II CT4
Long term stability	0.2%FS/year
Process connection	G1/4,G1/4C,G1/2,1/2NPT,1/4NPT,M20X1.5,R1/2,R1/4



PT210 Standard Series

Strain Gauge Pressure Transmitter



Description

This series use 17-4PH materials as elastic elements and imported strain gauges. Through a high-reliability amplifier circuit and temperature compensation, the gauge pressure of the measured medium is converted into a standard voltage or current output mode. Strong interference ability, wide operating temperature range, good long-term stability etc.

Product Feature

- Accuracy can be 0.5% F.S, 0.25% F.S
- Imported strain gauge

• 0 ~ 10bar; 0 ~ 1600bar

Application

Industrial process detection and control;Hydraulic system;Industrial machinery manufacturing;General industrial application

Technical Parameter				
Pressure range	0 ~ 10 bar,0~1600bar (0~1MPa,0-160MPa)			
Pressure type	Gauge pressure			
Accuracy		0.5% F.S		
Temperature drift		≤ 0.04%/°C		
Compatible medium	all corrosive medium com	patible with material 1Cr18	Ni9Ti and 17-4PH	
Electrical Performance	2-wire	3-wire	3-wire	
Output signal	4 ~ 20 mA	0~10V	0~5V	
Response time	≤3msec	≤10msec	≤10msec	
Power supply	12~30Vdc	12~30Vdc	10 ~ 30Vdc	
Overload resistance	(U-10)/0.02Ω 25kΩ 25kΩ			
E-connection	M12x 1(4-pin), Hirschmann, Leading wire			
Process connection	G1/4,G1/2,1/4NPT,M20x1.5			
Overload pressure	1.	5 times rated pressure		
Broken pressure	3 times rated pressure			
Diaphragm Temp	-20 ~ 85°C			
Mechanical shock	100 g/1 msec			
Mechanical Vabration	≤20 g (15—2000 Hz)			
Protection degree		IP65		



PT210AS/PT210AH

ro Series

>> Flush Diaphragm Strain Gauge Pressure Transmitter



Description

This series is sanitary special pressure transmitters designed and produced by using strain sensor core, Reasonable structural design and strict quality standards ensure the high reliability and stability of the products. with stainless steel welded structure, cavity-free full flush film, wide measuring range and field display

Product Feature

- Accuracy can be 0.25% F.S
- High reliability

Full hard flat diaphragm

Application

Environmental protection and dust engineering, Chemical industry and paper industry, Sewagetreatment industry, Industrial process and control

Technical Parameter					
Pressure range	0	0~100 bar,0~2000bar (0~10MPa,0~200MPa)			
Pressure type		Gauge	e pressure		
Accuracy		0.5% F.S	; 0.25% F.S		
Electrical Performance	2-wire	3-wire 0-10V	3-wire	3-wire	
Output signal	4 ~ 20 mA	0~10V	0~5V	0.5~4.5V	
Power supply	6.5 ~ 32Vdc	12~32Vdc	10 ~ 32Vdc	5Vdc	
Overload resistance	< (U-6.5)/0.02	<(U-6.5)/0.02 > 20k > 20k > 20k			
E-connection	M12x 1(4-p	oin),Hirschmann,PAC	K connector,water-p	proof connector	
Process connection	G1/2,1/2NPT,M20x1.5,R1/2 etc				
Overload pressure	1.5 times rated pressure				
Diaphragm Temp		-20	~ 85°C		
Electrical Temp	-20 ~ 80°C				
Protection degree	IP65				
Response time		≤10msec			
Long term stability		0.2%	FS/year		



PT210HT/PT210HH

>> High Temperature Strain Gauge Pressure Transmitter



Description

This series is all stainless steel structure, and imported high temperature resistant pressure sensor is selected as the signal measurement sensitive element, the measured medium pressure is transmitted to the sensor through the heat dissipation structure and the sensor probe can work stably at 200°C for a long time

Product Feature

• Compact stainless steel package

- Heat dissipation structure design,
- resistant to medium and high temperature

Application

Measurement of high temperature fluids such as steam and hot oil; Measurement and control of boiler industry; Medical autoclave

Technical Parameter					
Pressure range	0 ~ 700 bar (0~70MPa)				
Pressure type		Gauge p	oressure		
Accuracy		0.5% F.S;	0.25% F.S		
Electrical Performance	2-wire	3-wire 0-10V	3-wire	3-wire	
Output signal	4 ~ 20 mA	0~10V	0~5V	0.5~4.5V	
Power supply	6.5 ~ 32Vdc	12~32Vdc	10 ~ 32Vdc	5Vdc	
Overload resistance	< (U-6.5)/0.02	> 20k	> 20k	> 20k	
E-connection	M12x 1(4-pin),H	irschmann,PACK	connector,water-	-proof connector	
Process connection	G1/4,G1/2,1/4NPT,1/2NPT,M20x1.5,R1/4,R1/2,G1/4 etc				
Overload pressure	1.5 times rated pressure				
Diaphragm Temp		-20 ~	200°C		
Electrical Temp	-20 ~ 80°C				
Protection degree	IP65				
Response time	≤10msec				
Long term stability		0.2%F	S/year		



PT210CS/PT210CH

>> High Pressure Strain Gauge Pressure Transmitter



Description

This series is for high-pressure pressure measurement(as high as 8000bar) and applied to various media compatible with stainless steel 17-4PH. This sensor core base is made of integral stainless steel, without any welding or sealing ring structure, no leakage risk, which can ensure tomeet the requirements for production safety and reliability

Product Feature

• One-piece structure

- High load cycle, long service life,
- reduce the cost of repeated calibration

Application

Structure of test platform; Autoclave and cleaning; Water jet cutting; Oil drilling

Technical Parameter					
Pressure range	0 ~ 1600 bar,0	0 ~ 1600 bar,0~8000bar (0~160MPa,0~800MPa)			
Pressure type		Gauge pressure			
Accuracy		0.5% F.S; 0.25% F.S			
Electrical Performance	2-wire	3-wire 0-10V	3-wire		
Output signal	4 ~ 20 mA	0~10V	0~5V		
Power supply	12~30Vdc	12~30Vdc	10 ~ 30Vdc		
Overload resistance	< (U-6.5)/0.02	> 20k	> 20k		
E-connection	M12x 1(4-pin), Hirschmann, water-proof connector				
Process connection	G1/2 male/ ,M20x1.5 male or female ,M16x1.5 female etc				
Overload pressure	1.5 times rated pressure				
Diaphragm Temp		-20 ~ 85°C			
Electrical Temp	-20 ~ 80°C				
Protection degree	IP65				
Response time	≤10msec				
Long term stability		0.2%FS/year			



PT210FS/PT210FH/PT210FC

ro Series

>> Explosion-Proof Strain Gauge Pressure Transmitter



Description

Intrinsically safe series adopt imported 17-4PH and excellent strain gauges as elastic components. It is with a special explosion-proof shell, has a wide range of temperature compensation and good measurement accuracy, has reverse polarity protection, instantaneous over-current, voltage and anti-interference protection measures.

Product Feature

- Accuracy can be 0.25% F.S
- Protection degree IP65

• 4~ 20mA output

Application

Drilling platform;Petrochemical and natural gas control system;Explosion-proof industrial process measurement and control

Technical Parameter				
Pressure range	0 ~ 100 bar, 0 ~ 2000 bar(0~1MPa.0~200MPa)			
Pressure type	Gauge			
Accuracy	0.5% F.S; 0.25% F.S			
Output signal	4 ~ 20 mA			
Power supply	12 ~ 30Vdc			
E-connection	Leading wire			
Overload pressure	1.5 times rated pressure			
Working temperature	-20 ~ 80°C			
Protection degree	IP65			
Explosion-proof grade	Exia II CT4			
Long term stability	0.2%FS/year			



PT218/PT218E/PT218LR

>> Ceramic Piezoresistive Pressure Transmitter



Description

This series is a high reliability and durability product with large quantities and low cost OEM. It adopts the international advanced piezoresistive sensor core, and it has the characteristics of all stainless steel structure, ultra-wide working temperature range and compact design

Product Feature

- Compact stainless steel housing package
- Protection degree IP65
- Imported high performance thick film ceramic core

Application

Constant pressure water supply; Pneumatic system; Compressor; Automobile electron

	Technical Pa	arameter		
Pressure range	0~100bar (0~10MPa)			
Pressure type		Gauge pressure		
Accuracy		0.5% F.S		
Temperature drift		≤ 0.04%/°C		
Compatible medium	all corrosive me	edium compatible with m	naterial 1Cr18Ni9Ti	
Electrical Performance	2-wire	3-wire	3-wire	
Output signal	4 ~ 20 mA	0~10V	0.5~4.5V	
Response time	≤3msec	≤10msec	≤10msec	
Power supply	10~30Vdc	12~30Vdc	5Vdc	
Overload resistance	$(U-10)/0.02\Omega$	100kΩ	100kΩ	
E-connection	Н	lirschmann, PACK conn	nector	
Process connection	G1	/4,G1/2,1/4NPT,G1/2,M	120x1.5	
Overload pressure	1.5 times rated pressure			
Diaphragm Temp	-25 ~ 85°C			
Mechanical shock	100 g/1 msec			
Mechanical Vabration		≤20 g (15—2000 Hz	2)	
Protection degree		IP65		



PT220/PT220E/PT220FE

Throw-in Level Transmitter



Description

This series is specially designed for diving liquid level measurement. The sensitive components adopt diffused silicon core, built-in digital circuit board with strong anti-radio frequency and electromagnetic interference. 304 stainless steel material, adopts a perfect assembly process, and the protection level is IP68 to ensure that it is sturdy and durable in high-demand industrial occasions and has a long service life.

Product Feature

- Anti-clogging structure design
- Protection degree IP68

Application

Urban water supply, groundwater level monitoring; Water conservancy and hydro-power monitoring and control; Petrochemical industry; Strongly corrosive liquid level monitoring

Technical Parameter				
Pressure range	0~1mH ₂ O; 0~200mH ₂ 0			
Pressure type		Gauge pressure		
Accuracy		0.5% F.S; 0.25%F.S; 0.1%	F.S	
Electrical Performance	2-wire	3-wire 0~10V	3-wire	
Output signal	4 ~ 20 mA	0~10V	0~5V	
Power supply	12~30Vdc	15~30Vdc	12~30Vdc	
Overload resistance	50MΩ 100Vdc			
Process connection	Throw-in type,"X" thread or flange connection			
Overload pressure	3 times rated pressure			
Broken pressure	5 times rated pressure			
Diaphragm Temp	-25 ~ 85°C			
Long term stability	0.2% FS/year			
Protection degree		IP68		



PT230/PT230FH/PT230FN

>> Differential Pressure Transmitter



Description

This series is assembled with diffused silicon differential pressure core. The two pressure interfaces are directly installed on the measuring pipeline or connected through the pressure pipe. Compact design makes it suitable for equipment matching, machinery manufacturing and other applications with narrow space, complete equipment design, etc.

Application

Flow measurement; Filter monitoring; Hydraulic and pneumatic system; Machine manufacture

Technical Parameter						
Pressure range	0~1ba	0~1bar,0~100bar (0~100kPa,0~10MPa)				
Pressure type		Gauge pressure				
Accuracy		0.5% F.S; 0.25% F.S				
Electrical Performance	2-wire	2-wire 3-wire 0-10V 3-wire				
Output signal	4~20 mA 0~10V 0~5V					
Power supply	9~36Vdc 15~36Vdc 12~36Vdc					
Insulation resistance	500MΩ 100Vdc					
Overload pressure	2 times rated pressure					
Bilateral static pressure	5 times rated pressure					
Diaphragm Temp	-20 ~ 85°C					
Protection degree	IP65					
Long term stability		0.2% FS / year				



PT230BN Series

Wind Differential Pressure transmitter



Description

PT230BN is assembled by silicon piezoresistive differential pressure core, the whole product is of aluminum alloy structure, the two pressure interfaces are 6 air pipe joints, it can be directly installed on the measuring pipeline or connected through the pressure pipe, Simple installation, small and light structure

Product Feature

• Air pipe joint, easy to install

- Wide measuring range
- Measure tiny other differential pressure values

Application

HVAC and clean room technology; Filter technology, flow detection; Boiler air supply and underground ventilation; Pilot tube, flow orifice plate

Technical Parameter				
Pressure range	0~0.01bar,0~2bar (0~1kPa,0~200kPa)			
Pressure type		Gauge pressure		
Accuracy		0.5% F.S; 0.25% F.S		
Electrical Performance	2-wire 3-wire 0-10V 3-wire			
Output signal	4~20 mA 0~10V 0~5V			
Power supply	9~36Vdc 15~36Vdc 12~36Vdc			
Insulation resistance	500MΩ 100Vdc			
Overload pressure	1.5 times rated pressure			
Bilateral static pressure	3 times rated pressure			
Diaphragm Temp	-20 ~ 85℃			
Electrical Temp	-20 ~ 80°C			
Protection degree	IP65			
Product material	Aluminium alloy			



PT3051 Series

>> Differential Pressure Transmitter



Description

This series is a fully isolated intelligent field measuring instrument with optional HART communication protocol. The use of fully isolated circuit technology design to isolate the sensor signal of the power box greatly improves the stability and anti-interference ability . Except 3 basic function buttons for adjusting the zero point, range and zero pressure, it is also designed to be used in combination with 3 buttons M, S and Z on the display.

Application

It is widely used in industrial fields with extreme chemical and mechanical loads and high electromagnetic radiation occasions.

	Technical Parameter	
Temp idication	On-site temp value of transmitter	
Working temp	E-circuit:-40~+85℃ with LCD: -30~+80℃	
Error alarm	Analog output above 20.8mA or below 3.9mA	
E-connection	2-wire; 3-wire	
Output signal	4~20mA; 4-20mA+HART	
Supply power	24VDC; 15.5~45VDC	
Load range	≥250Ω, ≥15.5V 2 times the rated voltage	
Communication distance	Connection wire $\Phi > 0.6$ mm,and communication distance is about 1500m	
Display	Smart LCD, backlit 5 and a half digits display	
Damping value	Electronic damping adjustable range 0-32s	
Sensitive components	-40~+104°C	
• • •• • • • • • • • • • • • • • • • • •	-18~+71℃	



ZDX Series

>> Diffused Silicon Pressure Core



Description

ZDX silicon piezoresistive pressure core is the core component for manufacturing pressure sensors. it can be easily amplified and assembled into a standard signal output transmitter.ZDX core encapsulates the diffused silicon pressure sensitive chip into a 316L stainless steel shell. The pressure is passed to the sensitive chip by the stainless steel diaphragm and the internally sealed silicone oil is transferred. The sensitive chip does not directly contact the measured medium, forming an all-solid structure for pressure measurement.

Product Feature

- Constant current, constant voltage excitation optional Highly reliable imported pressure chip
- Wide temperature compensation

- Can do normalized output

Technical Parameter			
Pressure range	100kPa~100MPa	Storage Temp	-40°C~+125°C
Pressure type	Gauge pressure,Absolute pressure,Sealing pressure	Insulation Resistance	≥200MΩ /250DVC
Excitation	Constant current:1.5mA; Constant Voltage:10V	Response time	≦1ms(Rise to 90%F.S)
Output impedance	Constant current:2K Ω ~5K Ω ; Constant Voltage:3K Ω ~18K Ω	Measuring medium	Liquid compatible with SUS316 stainless steel
E-connection	Gold-plated Kovar pin or silicone flexible wire	Mechanical vibration	20g(20~5000HZ)
Compensation temp	Constant current:0°C~60°C (≦ 35KPa),-10°C~70°C (other range); Constant Voltage:-10°C ~70°C	Shock	100g(10ms)
Working Temp	-40°C∼+125°C	Service life	10*10(cycles)
Diaphragm material	SUS316L	Filling medium	Silicone oil
Housing material	SUS316L	Sealing ring	Butadiene cyanide or fluorine rubber



ZCX Series

ro Series

Ceramic Pressure Core



Description

It is a ceramic piezoresistive pressure sensor refined by a thick film process with an imported refined ceramic base. Ceramic is a recognized material with high thermal stability characteristics of ceramics and the high temperature sintering process of thick film make the working temperature range of ceramic pressure sensors as high as $-40 \sim 125$ °C. The high elasticity and creep resistance of ceramics make ceramic pressure sensors have good long-term stability. In addition, the corrosion resistance of ceramics gives it unique advantages in the fields of refrigeration, chemical industry and environmental protection.

Product Feature

- Zero point and full scale laser calibration
- Anti-shock and anti-vibration
- Excellent anti-corrosion and anti-wear performance
- Wide operating temperature range

	Technical Parameter
Pressure range	2bar/5bar/10bar/50bar/100bar
Power supply	2-20V
Sensitivity	15-4mV/V, Typical value:2.5 <u>+</u> 10mV/V
Input/Output impedance	10KΩ +/-30%F.S
Working Temp	-40°C~+125°C
Zero Output	0 <u>+</u> 0.1mV/V,0 <u>+</u> 0.2mV/V
Temperature drift	+/-0.05% FS/°C
Linearity/Hysteresis/Repeatability	+/-0.3% F.S
Safety Overload	2 times the rated range (sensitivity is a typical value)
Stablity	Better than 0.3%FS / year



PG110S Series

ro Series

>> Digital Diaphragm Pressure Gauge



Description

The design of this series meets the special requirements of food and process connection. Its design adopts isolation diaphragm to measure pressure, so that there is no residue in the measuring medium, easy to clean, and no dead corners in the connection process.

Application

Food industry; Biotechnology&pharmaceutical industry; Homogenizer

	Technical Parameter
Pressure range	0~3.5MPa~160MPa(0~35bar~1600bar)
Accuracy	1.6% F.S
	-20~+150°C
Diaphragm Temp	Static load is used up to 3/4 of the upper limit of measurement Alternating load is used up to 2/3 of the upper limit
Diaphragm Material	Short-time pressure is used up to the upper limit ambient temp -20~+60°C



PG110X Series

Mechnical Diaphragm Pressure Gauge



Description

This series adopts German imported movement, it can realize the setting of zero point, full scale, decimal point, damping time, switch alarm and alarm direction by single-key programming, without adjustment by potentiometer; high accuracy and good stability, Perfect performance, high reliability, long-term stability, combined with the world's leading micro-processing technology and advanced analog-to-digital conversion algorithm, to meet the requirements of high precision and low power consumption.

Product Feature

- Large-screen LCD display, easy to read Corrosion-resistant, anti-vibration, can
- •be used in a variety of complex environments

Application

Food industry; Biotechnology&pharmaceutical industry; Homogenizer

	Technical Parameter
Pressure range	0~100MPa;0-150MPa;0-200MPa (0~1000bar;0~1500bar;0-2000bar)
Accuracy	1.0% F.S
Power supply	9VDC
Process connection	M20*1.5
Display	Max display:1999bar;Min display: 10bar
Working Temp	-15~+70°C
Overload pressure	150% FSO
Measuring medium	Liquid compatible with SUS316 stainless steel



ZS301 Series /ZS601 Series

>> Load Cell



Description

The elastic body of the sensor is made of alloy steel; rubber sealing or welding sealing treatment, the surface is nickel-plated, waterproof, anti-corrosion, and the protection level reaches IP66. It is widely used in various weighing and force measuring equipment such as industrial process force control, batching control system and testing equipment.

Technical Parameter		
Range	0~0.1kg~2000kg~100T	
Accuracy	±0.02% F.S	
Sensitivity	2.0± 0.004mV/V	
Creep	±0.03% F.S /30min	
Zero Output	±1.0%F.S	
Input resistance	350±5Ω	
Output resistance	350±3Ω	
Insulation resistance	≥5000 (100VDC)	
Sensitivity temp influence	'±0.017% F.S /10°C	
Zero temp influence	±0.023% F.S /10°C	
Temp compensation	-10°C~+40°C	
Working temp	-35°C~+65°C	
Excitation voltage	9~12 DC V	
Safety overload	150%F.S	
Limit overload	200%F.S	
Protection degree	IP66	



ZSP/ZSF/ZSM/ZSR Series

>> Linear Position Transducer



Description

This series is an absolute position measurement type. It is used in adjustment systems and measurement systems to directly measure displacement and length, output current and voltage signals, and can also transfer signals to standard 0-5V, 0-10V or 4-20mA DC signal through built-in or external conversion modules, which can meet the requirements of longdistance transmission control.

Technical Parameter			
Standard Series	Universal Pull Rod Series	ZSP	
	Slider Series	ZSF	
Standard Series	Miniature Rod Series	ZSM	
	Micro Self-recovery Series	ZSR	
	0025=25mm	0275=275mm	
	0050=50mm	0300=300mm	
	0075=75mm	0325=325mm	
	0100=100mm	0350=350mm	
Floatrical strake (C.E.)	0125=125mm	0375=375mm	
Electrical stroke (C.E.)	0150=150mm	0400=400mm	
	0175=175mm	0425=425mm	
	0200=200mm	0450=450mm	
	0225=225mm	0475=475mm	
	0250=250mm	0500=500mm	



WSP Series

>> Temperature Sensor



Description

This WSP series with thermocouple or thermal resistance is a field-installed temperature transmitter unit. It is composed of thermocouple, thermal resistance and temperature transmitter modules. It adopts a 2-wire system and has a nonlinear correction circuit. It can directly measure liquid, gaseous media and various kinds of media in the range of -200° C $\sim +1600^{\circ}$ C in the industrial process.

Application

It is widely used in petroleum, chemical, metallurgy, electric power, light industry, textile, food and other industries. It can be used with moving coil instruments, digital display instruments, recording instruments, regulators, computers, etc., to form various temperature measurement control systems.

	Technical Parameter		
Accuracy	±0.2%F.S; ±0.5%F.S; ±1%F.S		
Output	4~20mA 2-wiring		
Power supply	12~34VDC Rated supply:24VDC		
Working Temp	-25~+85℃		
Relative humidity	5~95%; no condensation		
Storage Temp	'-25~+125℃		
load capacity	0-500Ω		
Temp influence	Class0.2;0.02%F.S/°C		
Head accuracy	Analogue:±2.5% F.S Digital: ±1.0% F.S		
Power consumption	< 0.5W		



TP202 Series

>> Intelligent Temperature Switch



Description

This series is an intelligent digital temperature measurement and control product integrating temperature measurement, display and output control. It is a fully electronic structure, which measures and controls the temperature of the control system. It is flexible to use, simple to operate, easy to debug, safe and reliable.

Application

Widely used in dry hydro-power, tap water, petroleum, chemical, machinery, hydraulic and other industries to measure, display and control the temperature of fluid media.

		Technical Parameter	
Temp range	-200~350°C	Accuracy	≤+/-0.25%,0.5%FS
Stablity	≤0.2%/year	Display way	4-digit digital tube + unit display
Sensor	PT100	Display range	-1999-9999
Power supply	15~36VDC	Protection Degree	IP65
Switching load	≤1.2A(24VDC)	Output	2 switch (PNP or NPN)+4-20mA
Load resistance	≤(U-12)/0.02Ω	Response time	≤5ms
Service life	> 10year	Ambient Temp	-40°C~70°C
Medium temp	-200~350°C	Storage Temp	-20℃~60℃



PT202 Series

Intelligent Temperature Switch



Description

This series is an intelligent digital display pressure measurement and control product that integrates pressure measurement, display, and output control. The product is a fully electronic structure, which measures and controls the pressure of the control system. It is flexible to use, simple to operate, easy to debug, safe and reliable.

Application

Widely used in hydropower, tap water, petroleum, chemical, machinery, hydraulic and other industries to measure, display and control the pressure of fluid media

Technical Parameter			
Pressure range	-0.1~0;0.02~100MPa		
Stablity	≤0.2%/year		
Pressure type	Gauge pressure,Absolute pressure,Sealing pressure		
Load ability	1.5times full range		
Switching load	≤1.2A(24VDC)		
Load resistance	≤(U-12)/0.02Ω		
Service life	> 10year		
Medium temp	-40℃~85℃		
Power supply	15~36Vdc		
Temp effect	within the specified working temperature, the output change is ≤every 10°C,output change≤+/-0.05% of range		
Accuracy	≤+/-0.25%,0.5%FS		
Display way	4-digit digital tube + unit display		
Display range	-1999-9999		
Protection Degree	IP65		
Output	2 switch (PNP or NPN)+4-20mA		
Response time	≤5ms		
Ambient Temp	-40°C~70°C		
Storage Temp	-20°C~60°C		
Relative humidity	0~95%		









Shanghai Ziasiot Technology Co., Ltd.

6th Boor,18th Building,No.615,Lianying Road Songjiang District, Shanghai,China P.C.:201611

E-mail: info@ziasiot.com www.ziasiot.com 400-821-0137