

Always Perfect Under Pressure

--- 压力之下 完美尽显 ---

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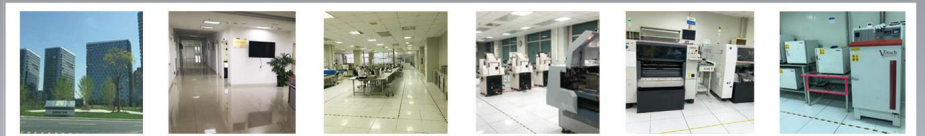
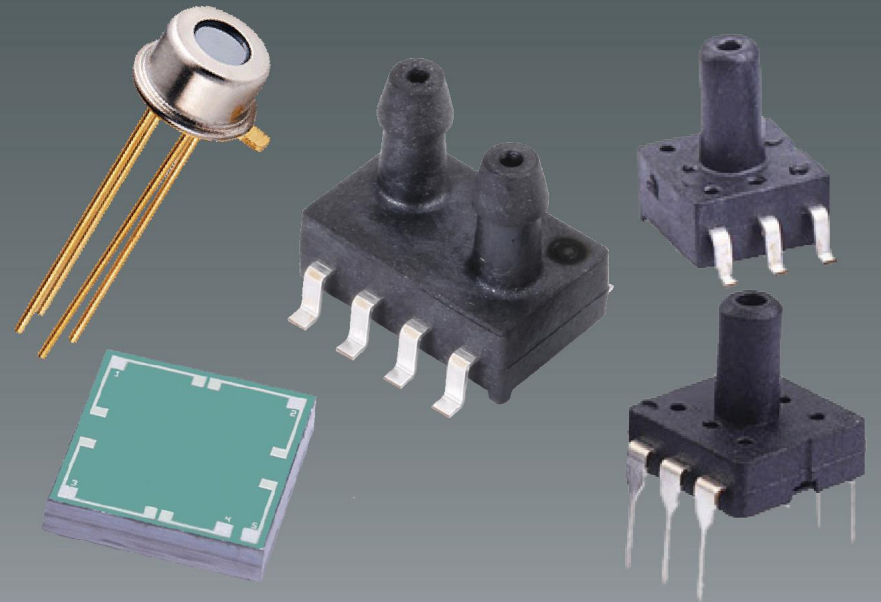
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About us

We are CFsensor, located in Wuhu National High&New Technology Development Zone, and composed of a team who devote many years to MEMS chip. We are a high-tech enterprise dedicated to the research, design and manufacturing of MEMS sensors.

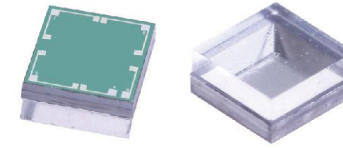
Since company establishment, we has successfully developed piezoresistive silicon pressure sensor chips, SOI high temperature pressure sensor chips, pressure sensors, pressure sensor modules, pressure transmitters, infrared sensors, flow sensors and other products, which are widely used in healthcare, automotive electronics, Consumer electronics, home appliances, purification equipment, water pumps, air compressors, meteorology and the Internet of Things and other fields. Relying on advanced MEMS manufacturing technology, scientific production management system, strict package & test standards and extremely competitive prices, Sencoch products are not only widely applied in China, but also exported to more than 100 countries and regions around the world with high praise on our quality and service.

We insists on independent innovation and has obtained more than 20 patent authorizations on invention patents and IC layout designs, and has obtained ISO9001 quality management system certification, provincial high-tech enterprises and other authoritative qualifications. We intend to provide our customers the best appropriate sensor and solution with affordable price, as well as the quickest delivery and comprehensive technical support. In the future, we will still be based on technological innovation, customer demand-oriented, enterprising, and strive for excellence, committed to becoming a world-renowned provider of MEMS sensor products and solutions.

CFSensor, Always perfect under Pressure!

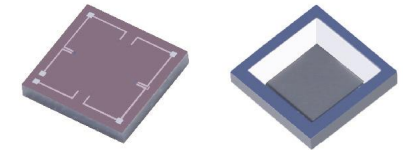


XGZP1804 Pressure Die



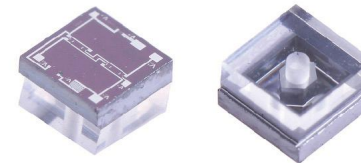
- Silicon Piezoresistive MEMS Technology
- Range: -100kPa ~ 0kPa...200kPa
- Type: GGauge(Relative pressure) or Absolute
- Media: non-corrosive gas or liquid
- Power Supply: ≤10V DC 或 ≤3.0mA DC
- Output: mV analog signal
- Impedance: 4kΩ ~ 6kΩ
- Working Temp: -40°C ~ +125°C
- Over Pressure: 2 times FS
- Chip Size: 1.8x1.8x0.4mm
- Application: Medical/Consumer/Automotive...
- Wide use, High Performance and Cost effective

XGZP2604 Pressure Die



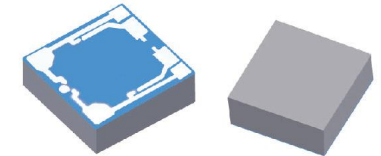
- Silicon Piezoresistive MEMS Technology
- Range: -100kPa ~ 0 ~ 1kPa...700kPa
- Type: Gauge(Relative pressure)
- Media: non-corrosive gas or liquid
- Power Supply: ≤10V DC 或 ≤3.0mA DC
- Output: mV analog signal
- Impedance: 4kΩ ~ 6kΩ
- Working Temp: -40°C ~ +125°C
- Over Pressure: 2 times FS
- Chip Size: 2.6x2.6x0.4mm
- Application: Medical/Consumer/Automotive...
- Low Pressure Available, High Sensitivity

XGZP2406 Pressure Die



- Silicon Piezoresistive MEMS Technology
- Range: -100kPa ~ 0kPa...5000kPa
- Type: Gauge(Relative pressure) or Absolute
- Media: non-corrosive gas or liquid
- Power Supply: ≤10V DC 或 ≤3.0mA DC
- Output: mV analog signal
- Impedance: 4kΩ ~ 6kΩ
- Working Temp: -40°C ~ +180°C
- Over Pressure: 2 times FS
- Chip Size: 2.4x2.4x0.6mm
- Application: Industrial/Medical/Consumer/Automotive...
- SOI Structure, Temp compensation

XGZP1006 Pressure Die



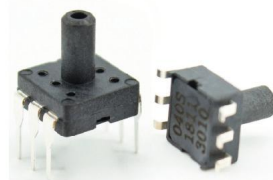
- Silicon Piezoresistive MEMS Technology
- Range: -100kPa ~ 0kPa...1600kPa
- Type: Absolute Pressure
- Media: non-corrosive gas or liquid
- Power Supply: ≤10V DC 或 ≤3.0mA DC
- Output: mV analog signal
- Impedance: 4kΩ ~ 6kΩ
- Working Temp: -40°C ~ +125°C
- Over Pressure: 2 times FS
- Chip Size: 0.9x0.9x0.4mm
- Application: Automotive/Consumer...
- Low Pressure Available, High Sensitivity

XGZP160 Pressure Sensor



- Silicon Piezoresistive MEMS Technology
- Range: -100kPa ~ 0kPa...200kPa
- Type: Gauge(Relative pressure)
- Media: non-corrosive gas
- Power Supply: $\leq 10V$ DC or $\leq 3.0mA$ DC
- Output: mV analog signal
- Impedance: $4k\Omega \sim 6k\Omega$
- Working Temp: $-30^{\circ}C \sim +100^{\circ}C$
- Over Pressure: 2 times FS
- Package: Tube / Tape&reel
- Application: Medical/Consumer/Automotive
- Wide use, High Performance and Cost effective

XGZP161 Pressure Sensor



- Silicon Piezoresistive MEMS Technology
- Range: -100kPa ~ 0kPa...2500kPa
- Type: Gauge(Relative pressure)
- Media: non-corrosive gas
- Power Supply: $\leq 10V$ DC or $\leq 3.0mA$ DC
- Output: mV analog signal
- Impedance: $4k\Omega \sim 6k\Omega$
- Working Temp: $-30^{\circ}C \sim +100^{\circ}C$
- Over Pressure: 1.5 times FS
- Package: Tube / Tape&reel
- Application: Medical/Industrial/Automotive
- High Pressure range

XGZP162 Pressure Sensor



- Silicon Piezoresistive MEMS Technology
- Range: -100kPa ~ 0kPa...200kPa
- Type: Gauge(Relative pressure)
- Media: non-corrosive gas
- Power Supply: $\leq 10V$ DC or $\leq 3.0mA$ DC
- Output: mV analog signal
- Impedance: $4k\Omega \sim 6k\Omega$
- Working Temp: $-30^{\circ}C \sim +100^{\circ}C$
- Over Pressure: 2 times FS
- Package: Tube / Tape&reel
- Application: Medical/Consumer/Automotive
- Barb nipple and horizontal design

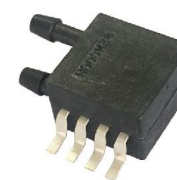
XGZP163 Pressure Sensor



- Silicon Piezoresistive MEMS Technology
- Range: -100kPa ~ 0kPa...1000kPa
- Type: Gauge(Relative pressure)
- Media: non-corrosive gas
- Power Supply: $\leq 10V$ DC or $\leq 3.0mA$ DC
- Output: mV analog signal
- Impedance: $4k\Omega \sim 6k\Omega$
- Working Temp: $-30^{\circ}C \sim +100^{\circ}C$
- Over Pressure: 2 times FS
- Package: Tube / Tape&reel
- Application: Medical/Consumer/Automotive
- Barb nipple for fastened installation

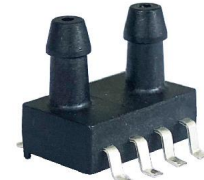
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XGZP164 Pressure Sensor



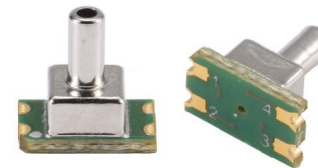
- Silicon Piezoresistive MEMS Technology
- Range: -100kPa ~ 0 ~ 1kPa...200kPa
- Type: Differential or Gauge(Relative pressure)
- Media: non-corrosive gas
- Power Supply: $\leq 10V$ DC or $\leq 3.0mA$ DC
- Output: mV analog signal
- Impedance: $4k\Omega \sim 6k\Omega$
- Working Temp: $-30^{\circ}C \sim +100^{\circ}C$
- Over Pressure: 2 times FS
- Package: Tube / Tape&reel
- Application: Medical/Consumer/Automotive...
- Barb nipple and horizontal design

XGZP190 Pressure Sensor



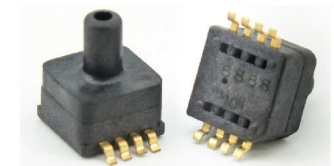
- Silicon Piezoresistive MEMS Technology
- Range: -100kPa ~ 0 ~ 1kPa...200kPa
- Type: Differential or Gauge(Relative pressure)
- Media: non-corrosive gas
- Power Supply: $\leq 10V$ DC or $\leq 3.0mA$ DC
- Output: mV analog signal
- Impedance: $4k\Omega \sim 6k\Omega$
- Working Temp: $-30^{\circ}C \sim +100^{\circ}C$
- Over Pressure: 1.5 times FS
- Package: Tube / Tape&reel
- Application: Medical/Consumer/Automotive...
- Barb nipple for fastened installation

XGZP151 Pressure Sensor



- Silicon Piezoresistive MEMS Technology
- Range: -100kPa ~ 0kPa...200kPa
- Type: Gauge(Relative pressure)
- Media: non-corrosive gas
- Power Supply: $\leq 10V$ DC or $\leq 3.0mA$ DC
- Output: mV analog signal
- Impedance: $4k\Omega \sim 6k\Omega$
- Working Temp: $-30^{\circ}C \sim +100^{\circ}C$
- Over Pressure: 2 times FS
- Package: Tube
- Application: Medical/Consumer/Automotive...
- PCB package

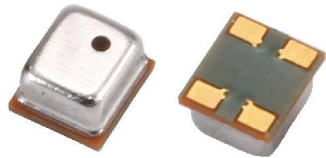
XGZP181 Pressure Sensor



- Silicon Piezoresistive MEMS Technology
- Range: -100kPa ~ 0kPa...200kPa
- Type: Gauge(Relative pressure)
- Media: non-corrosive gas
- Power Supply: $\leq 10V$ DC or $\leq 3.0mA$ DC
- Output: mV analog signal
- Impedance: $4k\Omega \sim 6k\Omega$
- Working Temp: $-30^{\circ}C \sim +100^{\circ}C$
- Over Pressure: 2 times FS
- Package: Tube / Tape&reel
- Application: Medical/Consumer/Automotive...
- Available for measuring liquid pressure

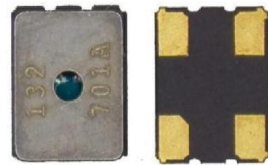
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XGZP131 Pressure Sensor



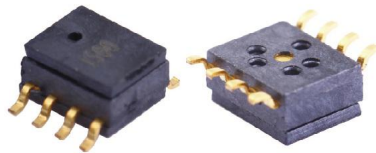
- Silicon Piezoresistive MEMS Technology
- Range: 0kPa ~ 100kPa...1500kPa
- Type: Absolute Pressure
- Media: non-corrosive gas
- Power Supply: ≤10V DC or ≤3.0mA DC
- Output: mV analog signal
- Impedance: 4kΩ ~ 6kΩ
- Working Temp: -30°C ~ +100°C
- Over Pressure: 2 times FS
- Package: Tube / Tape&reel
- Application: Consumer/Automotive/Medical...
- Low cost, Small volume

XGZP132 Pressure Sensor



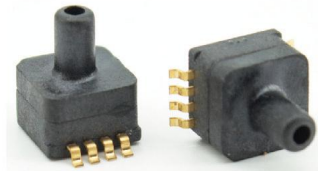
- Silicon Piezoresistive MEMS Technology
- Range: 0kPa ~ 100kPa...1500kPa
- Type: Absolute Pressure
- Media: non-corrosive gas
- Power Supply: ≤10V DC or ≤3.0mA DC
- Output: mV analog signal
- Impedance: 4kΩ ~ 6kΩ
- Working Temp: -30°C ~ +100°C
- Over Pressure: 1.5 times FS
- Package: Tube / Tape&reel
- Application: Consumer/Automotive/Medical...
- Low cost, Small volume, good moistureproof

XGZP170 Pressure Sensor



- Silicon Piezoresistive MEMS Technology
- Range: 0kPa ~ 100kPa...1500kPa
- Type: Absolute Pressure
- Media: non-corrosive gas or liquid
- Power Supply: ≤10V DC or ≤3.0mA DC
- Output: mV analog signal
- Impedance: 4kΩ ~ 6kΩ
- Working Temp: -30°C ~ +100°C
- Over Pressure: 2 times FS
- Package: Tube / Tape&reel
- Application: Automotive/Consumer/Industrial...
- Wide use, High Performance

XGZP180 Pressure Sensor



- Silicon Piezoresistive MEMS Technology
- Range: 0kPa ~ 100kPa...700kPa
- Type: Absolute Pressure
- Media: non-corrosive gas or liquid
- Power Supply: ≤10V DC or ≤3.0mA DC
- Output: mV analog signal
- Impedance: 4kΩ ~ 6kΩ
- Working Temp: -30°C ~ +100°C
- Over Pressure: 2 times FS
- Package: Tube / Tape&reel
- Application: Consumer/Industrial/Automotive...
- Available for measuring liquid pressure

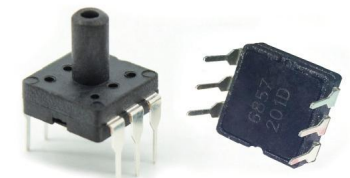
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XGZP6847 Pressure Sensor Module



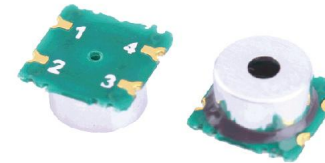
- Silicon Piezoresistive MEMS Technology
- Range: -100kPa ~ 0 ~ 1kPa...1500kPa
- Type: Gauge(Relative pressure)
- Media: non-corrosive gas
- Power Supply: 5V or 3.3V or custom
- Output: Amplified analog signal or IIC
- Accuracy: ±0.5, ±1.0, ±2.5%FS
- Working Temp: -30°C ~ +100°C
- Compensated Temp: 0°C ~ +60°C
- Application: Medical/Consumer/Automotive...
- Low cost, wide use
- Available for customized parameter(Pressure, output...)

XGZP6857 Pressure Sensor Module



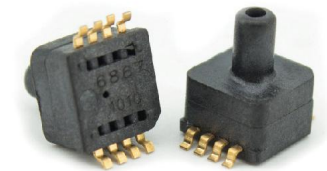
- Silicon Piezoresistive MEMS Technology
- Range: -100kPa ~ 0 ~ 1kPa...200kPa
- Type: Gauge(Relative pressure)
- Media: non-corrosive gas
- Power Supply: 5V or 3.3V or custom
- Output: Amplified analog signal or IIC
- Accuracy: ±0.5, ±1.0, ±2.5%FS
- Working Temp: -30°C ~ +100°C
- Compensated Temp: 0°C ~ +60°C
- Application: Medical/Consumer/Automotive...
- Low cost, wide use
- Available for customized parameter(Pressure, output...)

XGZP6817 Pressure Sensor Module



- Silicon Piezoresistive MEMS Technology
- Range: -100kPa ~ 0 ~ 1kPa...200kPa
- Type: Gauge(Relative pressure)
- Media: non-corrosive gas
- Power Supply: 5V or 3.3V or custom
- Output: IIC or Amplified analog signal
- Accuracy: ±0.5, ±1.0, ±2.5%FS
- Working Temp: -30°C ~ +100°C
- Compensated Temp: 0°C ~ +60°C
- Application: Medical/Consumer/Automotive...
- Low cost, wide use
- Available for customized parameter(Pressure, output...)

XGZP6867 Pressure Sensor Module



- Silicon Piezoresistive MEMS Technology
- Range: -100kPa ~ 0 ~ 1kPa...700kPa
- Type: Gauge(Relative pressure)
- Media: non-corrosive gas
- Power Supply: 5V or 3.3V or custom
- Output: Amplified analog signal or IIC
- Accuracy: ±0.5, ±1.0, ±2.5%FS
- Working Temp: -30°C ~ +100°C
- Compensated Temp: 0°C ~ +60°C
- Application: Medical/Consumer/Automotive...
- Low cost, Available for measuring liquid pressure
- Available for customized parameter(Pressure, output...)

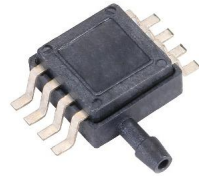
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XGZP6877 Pressure Sensor Module



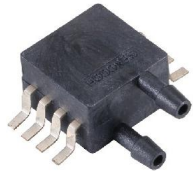
- Silicon Piezoresistive MEMS Technology
- Range: -100kPa ~ 0 ~ 1kPa...1000kPa
- Type: Gauge(Relative pressure)
- Media: non-corrosive gas
- Power Supply: 5V or 3.3V or custom
- Output: Amplified analog signal or IIC
- Accuracy: ± 0.5 , ± 1.0 , $\pm 2.5\%FS$
- Working Temp: $-30^{\circ}C \sim +100^{\circ}C$
- Compensated Temp: $0^{\circ}C \sim +60^{\circ}C$
- Application: Medical/Consumer/Automotive...
- Low cost, wide use
- Available for customized parameter(Pressure, output...)

XGZP6887 Pressure Sensor Module



- Silicon Piezoresistive MEMS Technology
- Range: -100kPa ~ 0 ~ 1kPa...200kPa
- Type: Gauge(Relative pressure)
- Media: non-corrosive gas
- Power Supply: 5V or 3.3V or custom
- Output: Amplified analog signal or IIC
- Accuracy: ± 0.5 , ± 1.0 , $\pm 2.5\%FS$
- Working Temp: $-30^{\circ}C \sim +100^{\circ}C$
- Compensated Temp: $0^{\circ}C \sim +60^{\circ}C$
- Application: Medical/Consumer/Automotive...
- Low cost, wide use
- Available for customized parameter(Pressure, output...)

XGZP6897 Pressure Sensor Module



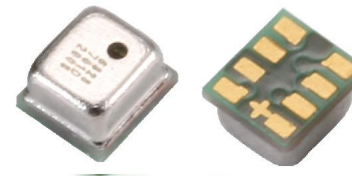
- Silicon Piezoresistive MEMS Technology
- Range: -100kPa ~ 0 ~ 1kPa...200kPa
- Type: Differential or Gauge(Relative pressure)
- Media: non-corrosive gas
- Power Supply: 5V or 3.3V or custom
- Output: IIC or Amplified analog signal
- Accuracy: ± 0.5 , ± 1.0 , $\pm 2.5\%FS$
- Working Temp: $-30^{\circ}C \sim +100^{\circ}C$
- Compensated Temp: $0^{\circ}C \sim +60^{\circ}C$
- Application: Medical/Consumer/Automotive...
- Low cost, wide use
- Available for customized parameter(Pressure, output...)

XGZP6899 Pressure Sensor Module



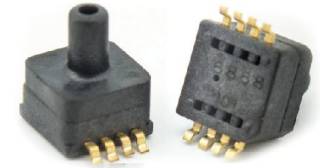
- Silicon Piezoresistive MEMS Technology
- Range: -100kPa ~ 0 ~ 1kPa...200kPa
- Type: Differential or Gauge(Relative pressure)
- Media: non-corrosive gas
- Power Supply: 5V or 3.3V or custom
- Output: Amplified analog signal or IIC
- Accuracy: ± 0.5 , ± 1.0 , $\pm 2.5\%FS$
- Working Temp: $-30^{\circ}C \sim +100^{\circ}C$
- Compensated Temp: $0^{\circ}C \sim +60^{\circ}C$
- Application: Medical/Consumer/Automotive...
- Low cost, Available for measuring liquid pressure
- Available for customized parameter(Pressure, output...)

XGZP6828 Pressure Sensor Module



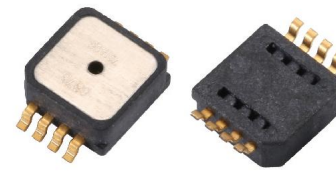
- Silicon Piezoresistive MEMS Technology
- Range: 0kPa ~ 100kPa...1600kPa
- Type: Absolute Pressure
- Media: non-corrosive gas
- Power Supply: 5V or 3.3V or custom
- Output: Amplified analog signal or IIC
- Accuracy: ± 0.5 , ± 1.0 , $\pm 2.5\%FS$
- Working Temp: $-30^{\circ}C \sim +100^{\circ}C$
- Compensated Temp: $0^{\circ}C \sim +60^{\circ}C$
- Application: Consumer/Automotive/Medical...
- Low cost, wide use
- Available for customized parameter(Pressure, output...)

XGZP6868 Pressure Sensor Module



- Silicon Piezoresistive MEMS Technology
- Range: 0kPa ~ 100kPa...700kPa
- Type: Absolute Pressure
- Media: non-corrosive gas or liquid
- Power Supply: 5V or 3.3V or custom
- Output: Amplified analog signal or IIC
- Accuracy: ± 0.5 , ± 1.0 , $\pm 2.5\%FS$
- Working Temp: $-30^{\circ}C \sim +100^{\circ}C$
- Compensated Temp: $0^{\circ}C \sim +60^{\circ}C$
- Application: Automotive/Consumer/Medical...
- Low cost, wide use
- Available for customized parameter(Pressure, output...)

XGZP6878 Pressure Sensor Module



- Silicon Piezoresistive MEMS Technology
- Range: 0kPa ~ 100kPa...1600kPa
- Type: Absolute Pressure
- Media: non-corrosive gas or liquid
- Power Supply: 5V or 3.3V or custom
- Output: Amplified analog signal or IIC
- Accuracy: ± 0.5 , ± 1.0 , $\pm 2.5\%FS$
- Working Temp: $-30^{\circ}C \sim +100^{\circ}C$
- Compensated Temp: $0^{\circ}C \sim +60^{\circ}C$
- Application: Consumer/Automotive/Medical...
- Low cost, wide use
- Available for customized parameter(Pressure, output...)

XGZP6888 Pressure Sensor Module



- Silicon Piezoresistive MEMS Technology
- Range: 0kPa ~ 160kPa
- Type: Absolute Pressure
- Media: non-corrosive gas or liquid
- Power Supply: 2V ~ 5.5V
- Output: IIC
- Accuracy: $\pm 0.3kPa(25^{\circ}C)$
- Working Temp: $-30^{\circ}C \sim +85^{\circ}C$
- Current Consume: $<200nA(25^{\circ}C)$
- Application: Meteorology,Pneumatic, Vacuum...
- Low cost, wide use
- Special gel treatment, wide measuring media.

XGZP261 Thermopile Sensor



- MEMS Technology
- TO46 Package
- High Sensitivity
- 5.5µm filter
- High accuracy NTC
- Chip Size: 1.1x1.1mm
- Accuracy: ±0.5, ±1.0, ±2.5%FS
- Sensing Area: 0.85x0.85mm
- Field of view: 90°
- Thermopile Resistance: 170±30%kΩ
- NTC Resistance: 100±3%kΩ
- Measuring Temp. Range: -40°C ~ +100°C
- Application: Medical/Consumer/Industrial...

XGZP4000 Air Flow Sensor



- MEMS Flow Sensor
- High accuracy MCU
- Range: 0 ~ 500SLPM
- Linearity output and temp. compensation
- High accuracy: 1.5%FS
- Response Time: 20mS
- Power Supply: ≤12V DC or ≤30mA DC
- Output: 1 ~ 5V/IIC
- Working Temp: -25°C ~ +85°C
- Application: Medical(Ventilator,Oxygenator,CPAP) and other flow measuring field...
- Low drift, high stability,Anti-blockage and shock

XGZP6161 Pressure Transmitter



- Ceramic Sensor
- Range: 0 ~ 10bar/0 ~ 16bar/0 ~ 25bar
- Type: Sealed Gauge Pressure
- Power Supply: 5V/2-12V
- Output: 0.5-4.5V/Equal proportion output
- Accuracy: ±1.0, ±1.5%FS
- Working Temp: -20°C ~ +100°C
- IP Grade: IP65
- Pressure Port: G1/4 or 1/8NPT or custom
- Electric Port: Cable lead or Aviation Plug
- Application: Water Pump, Water Supply, HVAC, Process...
- Anti-overload&shock&vibration, Anti-waterhammer...

XGZP6101 Pressure Transmitter



- Ceramic Sensor
- Range: 0 ~ 10bar/0 ~ 16bar/0 ~ 25bar
- Type: Sealed Gauge Pressure
- Power Supply: 10-30V
- Output: 4-20mA
- Accuracy: ±1.0, ±1.5%FS
- Working Temp: -20°C ~ +100°C
- IP Grade: IP65
- Pressure Port: G1/4 or 1/8NPT or custom
- Electric Port: Cable lead or Aviation Plug or Hirschmann
- Application: Compressor, Water Pump, HVAC, Process...
- Anti-overload&shock&vibration,Anti-waterhammer...

Applications

Medical & Healthcare



Medical Device&Equipment, Blood pressure test and monitor, oxygenerator Thermometer, Patient Monitoring, Infusion and Syringe Pumps, Anesthesia Machines, Respirators and Ventilators, NPWT, DVT, COPD Treatment, Catheter, Kidney dialysis, Cupping&Cosmetology, Skin scraping therapy, IPC Massager, Rehabilitation, Body-building, Healthcare etc..

Appliance & Consumer



Humidifier, Washer/Dryer, Coffee machine, Cleaner,crisper, Beer machine, Emergency Lamp,Consumer Electronic, E-cigarette, Wearable device, Swin watch, Hand Ring, Fitness tracker, Drone, Robotic, Mobile altimeter barometer, PND, GPS navigation, Fishing&Hiking&Diving Equipment etc.

Industrial & Automation



Water pump, Water supply, Water treatment, Hydraulic pressure, Tank Level indicator, Building automatic control, HVAC, Refrigeration, Airconditioner, Air Compressor, VAV, Ventilator, Heat pump, Airflow monitor, Pneumatic control, Industrial and Process control, Production Automation ,SMT, Laser Mark, Digital meter etc..

Automotive & More



Tire pressure, MAP sensor, Braking&Steering, LPG &CNG monitor, Automotive airconditioner. Negative pressure ambulance, inflator pump Energy process, Enviornmental Monitor,Waste water treatment, Air Detector Weather device, Altimetry, Altimeter, Pressure Instrument Meter& Device. Fire extinguisher system, Internet of things etc..