

# lamaPLC: XGZP68xx: Silicon Pressure Sensors/Module

The **CFSensor XGZP68xx series** features high-performance silicon pressure sensors combined with an ASIC for calibration and temperature compensation.



Silicon pressure sensors typically use one of two main methods:

**Piezoresistive:** Resistors are placed on a thin silicon diaphragm. When pressure bends the diaphragm, the resistance changes, which is measured as a voltage.

**Capacitive:** Pressure changes the distance between two plates (one of which is a silicon diaphragm), altering the electrical capacitance.

The table below compares several well-known sensor types, which can be found on [aliexpress.com](https://www.aliexpress.com) or [amazon.de](https://www.amazon.de):

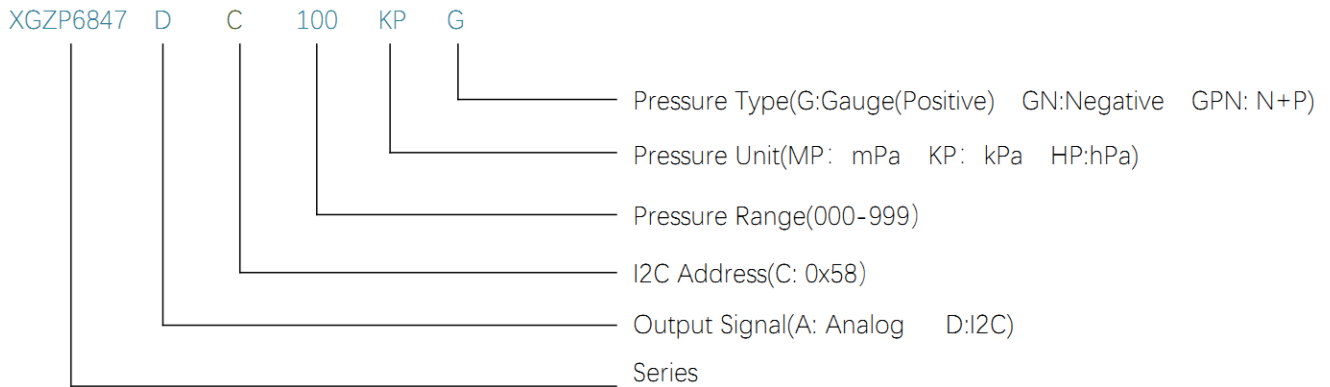
Sensor Type	Communication	Operating Range	Performance (Range/Type)	Efficiency	Special Properties
<b>XGZP6810D</b>	Digital I <sup>2</sup> C	3.0V - 5.5V	±125Pa / ±500Pa (Differential)	High-speed sampling	Ultra-sensitive; alternative to Sensirion SDP810.
<b>XGZP6847D</b>	Digital I <sup>2</sup> C	2.5V - 5.5V	-100kPa to 1500kPa (Gage)	~5uA sleep current	DIP6 package; widely used for blood pressure and appliances.
<b>XGZP6857D</b>	Digital I <sup>2</sup> C	3.3V or 5.0V	0-10kPa to 1000kPa (Gage)	Low power consumption	SOP6 package; compact footprint for consumer electronics.
<b>XGZP6859D</b>	Digital I <sup>2</sup> C	2.5V - 5.5V	0 to 200kPa (Vacuum/Gage)	Stable ratiometric output	Features a barb inlet pipe for secure tubing connections.
<b>XGZP6887D</b>	Digital I <sup>2</sup> C	3.3V or 5.0V	-100kPa to 1000kPa (Gage)	Calibrated /Compensated	J-lead SOP8 package; high reliability for industrial sensors.
<b>XGZP6897D</b>	Digital I <sup>2</sup> C	3.3V or 5V	-100kPa to 200kPa (Differential)	Optimized for I <sup>2</sup> C bus	Dual-port layout for measuring air flow or filter drop.
<b>XGZP6899A</b>	Analog	5V (Standard)	-100kPa to 700kPa (Differential)	Ratiometric (VCC dependent)	Provides calibrated analog signal for simple A/D inputs.

## Key Selection Guide

- **For Arduino/ESP32:** Stick to the "D" models (Digital I<sup>2</sup>C) to avoid external ADC calibration and reduce wiring.
- **For Ultra-Low Pressure:** Use the XGZP6810D for sensitive tasks like HVAC air flow or medical ventilators.
- **For Liquid/Vacuum:** The XGZP6859D is specifically designed for vacuum detection with a barb inlet.
- **Analog Preference:** If your system lacks I<sup>2</sup>C, the XGZP6899A is the analog version of the 6899D.

**Note:** Always check the voltage suffix (e.g., 33 for 3.3V or 50 for 5.0V) to match your microcontroller logic levels.

## XGZP6847: Fully calibrated silicon pressure sensor module



Note: Custom requirement or parameter(e.g pressure range, output etc.), consult with CFSensor on Part Number.

### XGZP6847D

The **XGZP6847D** is a fully calibrated silicon pressure sensor module designed for air and non-corrosive gases. It combines a MEMS pressure die with an integrated ASIC to provide direct digital readings via I<sup>2</sup>C, eliminating the need for complex external amplification or calibration.



### Technical Specifications

- **Pressure Range:** Covers a vast span from -100kPa to 1500kPa (model-specific).
- **Accuracy:** Typically ±2% FSS (Full Scale Span) for ranges between 10kPa and 200kPa, and ±2.5% FSS for other ranges.
- **Resolution:** 21-bit for pressure and 16-bit for temperature readings.
- **Power Supply:** Operates between 2.5V and 5.5V DC, with a default test voltage of 3.3V.
- **Current Consumption:** Very low, typically around 1.8mA during active measurement and as low as 100nA in standby.
- **Temperature Compensation:** Calibrated for accurate performance between 0°C and +60°C.



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## XGZP6897D: specialized differential pressure sensor

The XGZP6897D is a specialized differential pressure sensor designed to measure the difference between two air sources. It is widely used in airflow systems (such as Pitot tubes), HVAC filters, and medical ventilators.



### Core Technical Specifications

- **Pressure Type:** Differential (compares pressure between two ports).
- **Pressure Range:** Extremely flexible, from  $\pm 0.5\text{kPa}$  up to  $\pm 200\text{kPa}$ .
- **Output:** 24-bit Digital (I<sup>2</sup>C interface) for pressure; 16-bit for temperature.
- **Accuracy:** Typically  $\pm 2\%$  Span (for ranges  $>10\text{kPa}$ ) or  $\pm 2.5\%$  Span (for ranges  $<10\text{kPa}$ ).
- **Power Supply:** Flexible 2.5V to 5.5V DC range.
- **Media:** Non-corrosive gases or dry air only.
- **Response Time:** Standard 20ms (10% to 90% step change).
- **Default Slave Address:** 0x6D

### Pinout

- **Pin 2:** GND (Ground)
- **Pin 3:** SDA (I2C Data)
- **Pin 4:** SCL (I2C Clock)
- **Pin 6:** VDD (Power)
- **Note:** Other pins (1, 5, 7, 8) are usually NC (No Connection) or factory-specific.
- **Capacitor:** A 100nF decoupling capacitor between VDD and GND is required for stable readings.

### Port Usage

- **P1 (High Port):** Connect to the higher pressure source.
- **P2 (Low Port):** Connect to the lower pressure source or leave open for Gage measurements.

## I<sup>2</sup>C topics on lamaPLC

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• <a href="#">LamaPLC: Gas sensors</a>	2023/07/01 17:29	gas, sensor, i2c, onewire, communication, mq-3, mq-4, mq-5, mq-6, mq-7, mq-8, mq-9, mq-135, gm-102b, gm-302b, gm-502b, gm-702b, alcohol, ch4, natural gas, smoke, lng, co, co2, lpg, h2, iso-butane, nox, nh3, benzene, town gas, formaldehyde, propane, humidity, temperature, voc, grv gas sens v2
• <a href="#">lamaPLC: GY-511 6DOF sensor module</a>	2026/03/22 01:44	stmicroelectronics, lsm303dlhc, i2c, lsm303, sensor, gy-511, 6dof, pololu, module, arduino
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• <a href="#">LamaPLC: HDC Texas Instruments Temperature/humidity sensors with I<sup>2</sup>C communication</a>	2026/04/23 21:52	sht21, htu21, si7021, gy-21, gy-213v, hdc1080, gy-213v-hdc1080, cjmcu, cjmcu-1080, texas instruments, temperature, humidity, sensor, i2c, communication, arduino, code
• <a href="#">lamaPLC: HT16K33 display controller</a>	2026/04/23 21:51	i2c, 7-segment display, display, ht16k33, arduino
• <a href="#">LamaPLC: HTU TE Connectivity temperature/humidity sensors with I<sup>2</sup>C communication</a>	2026/04/23 21:52	htu, htu31d, htu21d, htu20d, sht20, htu20, sht21, htu21, si7021, gy-21, gy-213v, hdc1080, si702, gy-20, sht31, htu31, si7031, gy-31, te connectivity, temperature, humidity, i2c, communication, sensor, arduino, code
• <a href="#">lamaPLC: INA modules with Arduino libraries</a>	2026/04/11 19:54	i2c, i c, communication, arduino, energy, power, current, monitor, sensor, ina219, gy-219, ina226, gy-216, ina228, gy-228, ina237, ina238, ina260, ina3221, ina
• <a href="#">lamaPLC: INA226 - current/voltage/power monitor with I<sup>2</sup>C communication</a>	2026/04/23 21:52	i2c, i c, communication, arduino, energy, power, current, monitor, sensor, ina226, ina219, ina
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• <a href="#">LamaPLC: MAX30100/MAX30102 Heart Rate Click Sensor Module</a>	2026/04/23 21:52	max30102, max30100, heart rate click, sensor, communication, i2c, arduino, code
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• <a href="#">LamaPLC: VL53Lnn STMicroelectronics time-of-flight (ToF) laser-ranging sensors with I<sup>2</sup>C communication</a>	2026/04/23 21:52	<a href="#">vl53l0x</a> , <a href="#">vl53l1x</a> , <a href="#">vl53l0 1xv2</a> , <a href="#">gy-530</a> , <a href="#">time-of-flight</a> , <a href="#">tof</a> , <a href="#">laser-ranging</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a>
• <a href="#">LamaPLC: VL6180X STMicroelectronics Time-of-Flight (ToF) sensor with I<sup>2</sup>C communication</a>	2026/04/23 21:52	<a href="#">vl6180x</a> , <a href="#">stmicroelectronics</a> , <a href="#">time-of-flight</a> , <a href="#">tof</a> , <a href="#">i2c</a> , <a href="#">communication</a> , <a href="#">sensor</a> , <a href="#">arduino</a> , <a href="#">code</a>
• <a href="#">lamaPLC: XGZP68xx: Silicon Pressure Sensors/Module</a>	2026/05/15 15:17	<a href="#">communication</a> , <a href="#">i2c</a> , <a href="#">sensor</a> , <a href="#">modul</a> , <a href="#">pressure</a> , <a href="#">cfsensor</a> , <a href="#">xgzp68xx</a> , <a href="#">xgzp6810d</a> , <a href="#">xgzp6857d</a> , <a href="#">xgzp6859d</a> , <a href="#">xgzp6887d</a> , <a href="#">xgzp6897d</a> , <a href="#">xgzp6899a</a> , <a href="#">piezoresistive</a> , <a href="#">capacitive</a>

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- [SSH1106/SSD1306 OLED Display with I<sup>2</sup>C communication](#)
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