

# 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.

The table below compares several well-known sensor types, which can be found on aliexpress.com or amazon.de:

Sensor Type	Communication	Performance (Range/Type)	Efficiency	Special Properties
<b>XGZP6810D</b>	Digital I2C	$\pm 125\text{Pa}$ / $\pm 500\text{Pa}$ (Differential)	High-speed sampling	Ultra-sensitive; alternative to Sensirion SDP810.
<b>XGZP6847D</b>	Digital I2C	-100kPa to 1500kPa (Gage)	$\sim 5\mu\text{A}$ sleep current	DIP6 package; widely used for blood pressure and appliances.
<b>XGZP6857D</b>	Digital I2C	0-10kPa to 1000kPa (Gage)	Low power consumption	SOP6 package; compact footprint for consumer electronics.
<b>XGZP6859D</b>	Digital I2C	0 to 200kPa (Vacuum/Gage)	Stable ratiometric output	Features a barb inlet pipe for secure tubing connections.
<b>XGZP6887D</b>	Digital I2C	-100kPa to 1000kPa (Gage)	Calibrated/Compensated	J-lead SOP8 package; high reliability for industrial sensors.
<b>XGZP6897D</b>	Digital I2C	-100kPa to 200kPa (Differential)	Optimized for I2C bus	Dual-port layout for measuring air flow or filter drop.
<b>XGZP6899A</b>	Analog	-100kPa to 700kPa (Differential)	Ratiometric (VCC dependent)	Provides calibrated analog signal for simple A/D inputs.

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