PRESSURE SENSING IN SMART METERING APPLICATIONS

With a focus on sustainability, reducing consumption, and improving meter accuracy, smart metering technologies are a significant opportunity for a smart and connected future.

Build on Sensata's trusted pressure sensor technology, these meter-optimized sensors deliver the accuracy and performance needed to provide reliable pressure monitoring in both water and gas meter applications.

129CP - SMART WATER PRESSURE METER

Utilizing Sensata's industry leading ceramic capacitive technology, the 129CP pressure sensor is housed in a small and innovative package ideal for use in tight spaces. The sensor is robust and reliable to withstand harsh conditions such as water hammer over the life of the sensor.

MINIMAL POWER CONSUMPTION

Very low power consumption (<6 µA) at 1Hz measurement

DRINKING WATER SAFE

Specifically designed for drinking water applications

RELIABLE PERFORMANCE

Water hammer performance of 100K cycles at 0-25 bar (0-360 psi)

DURABLE AND TEST

IP67 ingress protection to meet challenging environmental needs

8MPP2 – SMART GAS METERS

The 8MPP2 low pressure sensor utilizes Sensata's field proven automotive Micro-Electro-Mechanical-Systems (MEMS) technology that outputs fully conditioned pressure values via the digital I²C bus.

FLEXIBLE MEDIA

Compatible with natural gas, air, and other gaseous media, measuring pressure in the 0-1 psig to 0-5 psig range.

ROBUST DESIGN

Compact robust sensor package designed for long-term use in natural gas applications.

OPTIMIZED FOR BATTERY APPLICATIONS

Achieves low power consumption (8 µA @1Hz) needed in meter applications

ORDERING OPTIONS

129CP

Product Number	Pressure Range	Output	Resolution
129CP11-M16S1-0	0 - 16 bar (0-232 psi)	Digital I2C	14 bit min

8MPP2

8MPP2 - 01 - 0x28 - S - 0

Family

8MPP2

Full Scale Pressure Range

01: 1 psig
05: 5 psig

I²C Address

0x28
0x38
0x48
0x58
0x68
0x78

Mode

U: Update Mode
S: Sleep Mode

Update Rate (valid for Update Mode Only)

0: 0.5 ms
1: 1.5 ms
2: 6.5 ms
3: 32.0 ms

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