

MEASUREMENT & SENSORS

Next Generation Flow Sensors

200 kHz

Gas Sensor

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Sensor design expertise meets automation proficiency

CeramTec prepares its next generation flow sensors, ideal for gas metering applications. Designed using our world class piezoelectric materials and expertise in transducer design and manufacturing, this product range is suitable to leading temperature and pressure classifications.

200 kHz Gas Sensor

Parameters	Target Value
Centre frequency Fm (Acoustic)	210kHz +/- 10 kHz
Receive Voltage	At 210 kHz ± 10 kHz Min. 17 mVpp – for a pair of transducers separated by 150 mm air column, when driven with 30 cyc square wave with 20 Vpp drive voltage
Zero Flow Drift Over Temperature Range	Zero flow drift over the temperature range -35°C to 55°C: maximum 500 ps (averaged over 200 measurements). Usind TI board MSP430FR6043 EVM
Storage Temperature	-40°C – 85°C
Operating Temperature	-35°C – 65°C
Bandwidth at -3dB Points (Acoustic)	BW ≥ 10 kHz
Beamwidth at -3dB Points	10°C +/- 1.5°C
Safe Over-Pressure*	Currently tested to 16 bar at room temperature

* The pressure at which no damage will be caused to the functionality of the part when returned to operating pressures.

