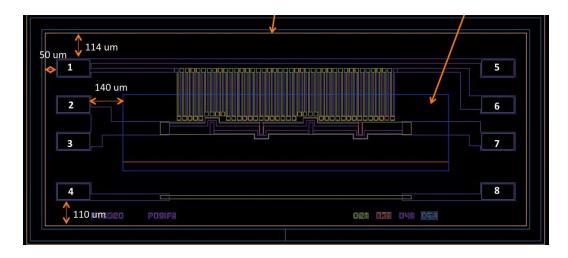
MEMS Thermal Conductivity Sensor

Date: 9-Sep-2019 Version: 1



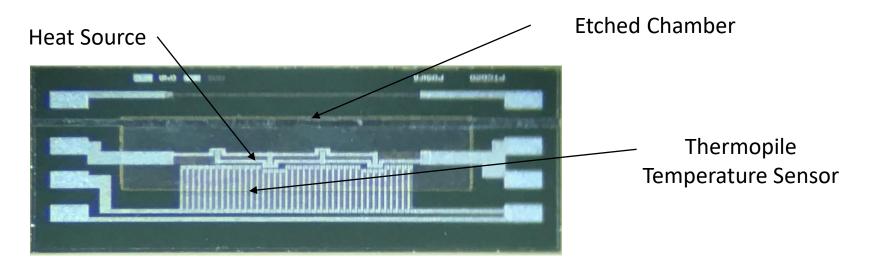
Vacuum, gas and absolute humidity sensors, which enable many industrial applications. Now, all are getting a MEMS platform



Thermal Conductivity Sensing Chip

MEMS Thermal Conductivity Sensor





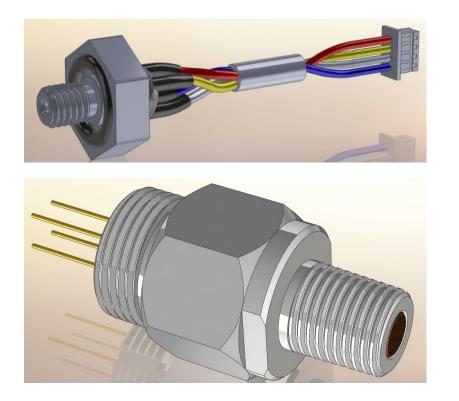
- Easy of fabrication and CMOS integration
- Single-wafer micromaching
- Microstructure formation at the final step
- Small dimension of cavity eliminates convention flow

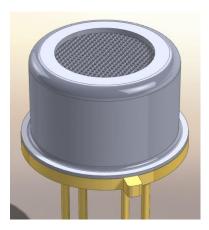
Applications being explored

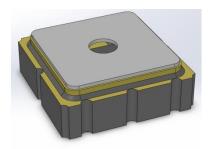
- Vacuum Gauge ... HVAC Refrigerant Management
- Absolute Humidity ... Smart Toaster Oven
- CO₂ Sensor ... Respiratory Gas Exchange
- **R32 Leak Detecting** ... Air Conditioner

All are based on detection of the thermal properties of gases

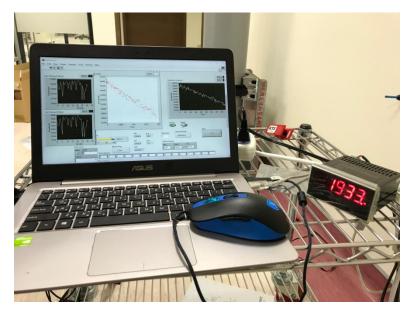
Standard or Custom Package Available







Built-in Signal Conditioning for plug-and-play



Implementation of vacuum measurement

Application: Micron Gauge



