

## Accepted Manuscript

Title: Pressure Sensing Method Based on the Transient Response of a Thermally Actuated Micro-Wire

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### Highlights

- We experimentally investigate a novel thermal-based pressure sensing method.
- It relies on the transient behavior of a related steady state method.
- We fabricated a CMOS compatible sensor.
- Benefits are very-low heating temperature and convection cross-sensitivity immune.
- Prototype performances already compete with existing sensors.

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