



SYSTEM AND METHOD FOR FLEXIBLE MULTI-VARIABLE SENSOR

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The Invention

UW-Madison researchers, in conjunction with an industry partner, have developed a printed serpentine trace that can act as both a temperature sensor and a strain/flow sensor. It is integrated on a single deformable substrate that can be input into a flowing liquid. As the liquid flows, the deflection of the substrate is modified. The sensor has three terminals set up in a voltage divider conformation to obtain resistance values from both the temperature sensing portion and the strain sensing portion. This invention could be a low-cost, highly integrated solution for in-flow rate and temperature measurements.

Additional Information

For More Information About the Inventors

- [Joseph Andrews](#)

Tech Fields

- [Analytical Instrumentation, Methods & Materials : Sensors](#)

For current licensing status, please contact Michael Carey at mccarey@warf.org or 608-960-9867