

Press Release

For Immediate Release June 24, 2002 8:00am PST

“VioSense Introduces Embeddable Optical Flow Sensors”

Using MEMS technology and diffractive optical elements, “DOE’s”, a California company licensed by Caltech has developed non-contact flow sensors that are embeddable, linear and require no calibration. The requirement for operation is that the fluid to be measured is optically accessible and contains scattering sources (particles).

The technique, called time-of-flight velocimetry, is applicable over a wide range of operating temperatures, pressures, and velocity ranges.

In this technique, a micro-sensor (<200 μm in diameter) is mounted flush with the surface of a pipe or wall and measures velocity at a single point a fixed distance from the surface. Multiple sensors with different standoff distances can be used to measure velocity profiles instantaneously. The sensors can be used in liquids and gases, multi-phase flows and harsh environments.

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