

# Mass Flow Sensors Establish New Performance Standards



Posifa Microsystems, Inc., a leader in Advanced MEMS Sensor Development, today unveiled its new line of Low-flow Mass Air Flow Sensors. The PMF2000 family, which incorporates the latest MEMS and microelectronics innovations, eliminates the field failures associated with pressure shock, humidity and contamination that have for years plagued other manufacturers. By replacing the common “membrane-cavity” structure with a proprietary “solid-state” thermal isolation structure on the sensor die, Posifa’s sensors bring new levels of reliability to their customer’s applications. Additionally, the sensor die incorporates a pair of thermopiles surrounding a central heating element to detect changes in temperature gradient caused by mass flow, delivering ultra-high signal-to-noise, and unsurpassed repeatability.

By using a high-caliber internal microcontroller, the PMF2000 family delivers 2% full scale (max.) accuracy, linear output for each of their respective ranges of 10, 30, 200, 1,000 and 2,000 sccm (standard cubic centimeter per minute). This expanded set of ranges gives customers an ability to choose a range best suited to their application for improved overall performance.

The sensors are fully calibrated and compensated over the temperature range of 0°C to +50 °C. Offering a 4 volt linear output range (1 to 5 Vdc), the sensors provide better than 2% F.S. accuracy over the entire output range. The new line of Sensors also offer extremely high repeatability of less than 0.5% F.S. per year null drift, making field replacements a calibration-less task.

**Posifa Microsystems Inc.**

[www.posifamicrosystems.com](http://www.posifamicrosystems.com) [1]

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