SENOVOL CORPORATION

Breaking the 45-Month Barrier
PID Lamp Stability Redefined
Tech Note 260604

In the gas detection industry, "output decay" is often treated as an unavoidable reality. Traditional PID lamps typically experience a steady decrease in signal strength, leading to frequent maintenance and drift.
At Senovol, located in Silicon Valley, California, we've challenged this standard. By implementing significant improvements to our manufacturing process—specifically leveraging semiconductor high-vacuum technology—we have achieved a level of durability that sets a new industry benchmark.

Proven Performance: 45 Months & Counting
We don't just promise reliability; we prove it through rigorous testing. Our latest endurance data shows:

- Duration: 45 months of continuous, 24/7 operation.
- Performance: No output decrease recorded throughout the period.
- Status: Testing remains ongoing to find the true lifespan limit of our improved manufacturing process.

A Precision Fit for Every Instrument
Our high-vacuum lamps are available in various sizes and energy levels to support global instrument manufacturers:

- 1/2" (12.5 x 40 mm): Available in 10.6 eV and 9.8 eV.
- 1/2" (12.5 x 31 mm): Available in 10.6 eV and 9.8 eV.
- 3/8" (9.75 x 18 mm): Available in 10.6 eV and 9.8 eV.
- 1/4" (6.5 x 12 mm): Available in 10.6 eV and 9.8 eV.
- Custom Solutions: Tailored sizes available for 10.6 eV and 9.8 eV requirements.

By combining Silicon Valley innovation with semiconductor-grade manufacturing, Senovol is helping partners build sensors and PID instruments that are more reliable and require less frequent calibration.