

5 Years of Accurate Readings with No Calibration



NevadaNano develops and manufactures microelectro mechanical systems (MEMS)- based sensor modules and subsystems for a diverse array of commercial and government applications. **The company's Molecular Property Spectrometer™ (MPS) sensors represent a major innovation in sensor technology** because of their accuracy and long-term stability.

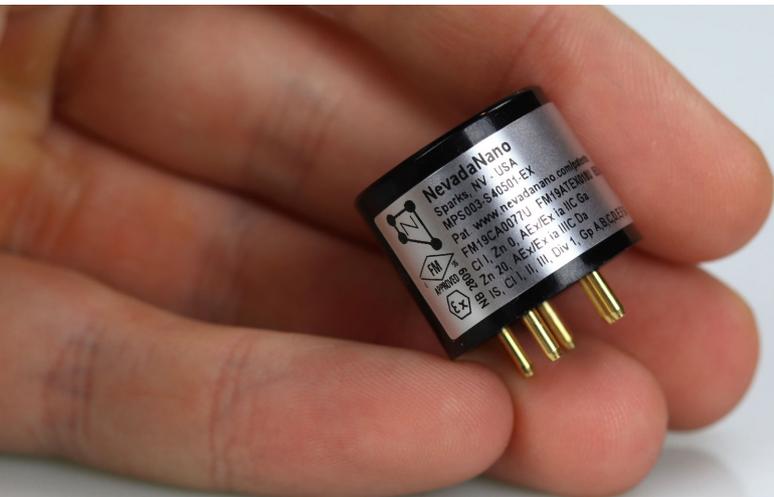
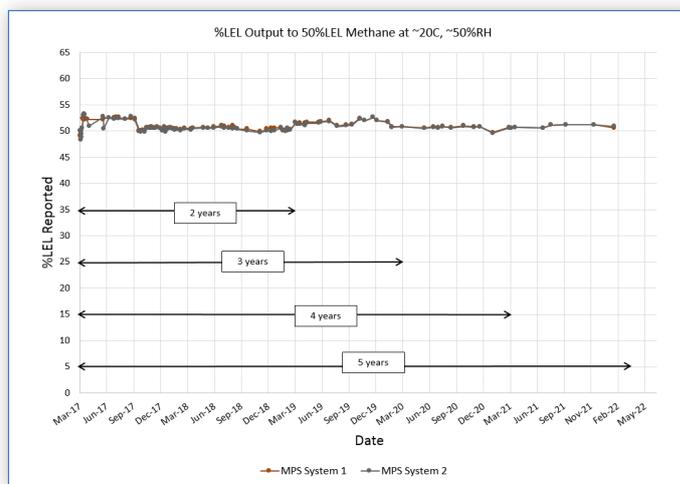
The unique MPS sensor technology was developed at the University of Nevada with support from the US Department of Homeland Security. Leveraging this technology, **NevadaNano holds an exclusive license for 43 inventions and 27 patents for on-chip chemical analysis technology, focusing on commercial and industrial applications**, specifically, Internet of Things (IoT) enabled distributed gas sensing. NevadaNano's patented MPS sensor technology drives innovative solutions across applications creating healthier and safer work environments.

The MPS Gas Sensor Family includes the MPS Flammable gas sensor (0% to 100%LEL), MPS Methane gas sensor (range of 50 to 1M ppm), MPS Refrigerant (A1, A2L's, A3) and MPS configurable sensor, where any analogue voltage is available as a drop-in replacement. **Each sensor comes in a variety of packaging formats all of which have global approvals.** MPS sensors last 10+ years, cannot be poisoned, never needs calibration, and is low power compared to traditional sensors.

Historical data is always a powerful argument when demonstrating new technology, this couldn't be more poignant when introducing a sensor that doesn't need regular calibration, doesn't deteriorate or drift unlike traditional gas sensing technology.

NevadaNano manufactured and calibrated a group of MPS sensors back in early 2017 these sensors have been running continuously for 5 years. During this period no calibrations were performed, **we have seen no deterioration, no drift, and despite being regularly exposed to combustible gases, accuracy remains within specifications!**

During this period NevadaNano have also carried out independent testing for several months against traditional sensors to see how they perform when exposed to Methane, Hydrogen, Propane and with a wide range of other chemicals that can poison a sensor.



NevadaNano are willing to share all this information to demonstrate the stability and reliability:

- Several MPS Flammable gas sensor systems currently performing long-term stability
- No span or zero drift
- 5 years of accurate reading with no re-calibration
- Sensors report within 3 %LEL variance of applied gas concentration across all gas tests