



Dear Sir/Madam:

NYSEARCH, the R&D organization within the Northeast Gas Association, has funded the development of a new, innovative and reliable methane detector, capable of measuring methane concentrations from 0.25% to 100% in air, with a response time of as low as 1 second. The sensor is based on the micro resonance effect with temperature stabilized oscillators that are compensated to ensure detector reliability, accuracy, and stability. The methane sensor is ideal as a residential and commercial methane and/or natural gas detector to detect leaks of methane/natural gas in demanding environments. The sensor has a ruggedized, cost-efficient design and has received UL Certification (UL 1484).

The methane sensor has several key advantages over existing commercial detectors:

1. **No Poisoning** – As opposed to catalytic sensors, this methane detector is not susceptible to poisoning by sulfur and silicon compounds, leading to longer sensor lifetimes.
2. **High Selectivity** –most sensor technologies are sensitive to other hydrocarbons and gases. For example, IR sensors are sensitive to any chemical compound that has C-H bonds; this methane detector is highly selective to methane.
3. **Fewer False Alarms** –Due to poor selectivity, most competing technologies will produce false alarms in hydrocarbon-rich atmosphere. Such hydrocarbons can be gasoline vapors, alcohols, or propellants that are commonly used in consumer products. ANI's methane sensor is not triggered by other gases that are prevalent in households.
4. **Increased Lifetime** – ANI's methane sensor is expected to last at least 10 years. That is significantly longer than conventional catalytic sensors. There are no chemical reactions or consumables involved in the sensor operation.
5. **One Time Calibration** – Once the sensor is calibrated by the manufacturer, no further calibration is necessary.
6. **Ultra-Fast Response and Recovery** – The response time of ANI's methane sensor, as well as the recovery time, are approximately 1 second.
7. **No Oxygen Required** - The ANI methane sensor can operate in nitrogen or other inert environments.
8. **Wide Operating Range** - The sensor response is linear from 0.25% to 100% methane in air.

NYSEARCH is now offering for commercial licensing sensor kits which include a detector, power supply, and a User/Installation manual. If you are interested in this evaluation opportunity, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Daphne D'Zurko".

Daphne D'Zurko
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