



HIGH ACCURACY NON-A/C POWERED LEAK TESTER AND VOLUME CALIBRATOR

TECHNOLOGY READINESS LEVEL: 6

US PATENT # 8,201,438

A PROTOTYPE OF THIS TECHNOLOGY HAS BEEN DEVELOPED AND TESTED AT SANDIA.

TECHNOLOGY SUMMARY

This novel invention relates to a portable, pneumatically-controlled instrument capable of generating a vacuum (less than 10 Torr), calibrating volumes, and performing quantitative leak tests, all without the use of A/C power. This means testing will not be disrupted when working in sensitive or hazardous environments (e.g., flammable or poisonous gases, lightning storms). No warm-up time is required for testing, with highly accurate results being generated within minutes.



POTENTIAL APPLICATIONS

- Semiconductor Industry
- Solar Power Generation
- Space Industry

TECHNOLOGICAL BENEFITS

- No A/C power required: improved safety when working with flammable materials and continuous testing even in hazardous conditions
- Fully pneumatically controlled, does not require an operator to actuate process valves
- Small size, can easily be taken into the field

TECHNOLOGY INQUIRY?

For more information or licensing opportunities contact us at

[**ip@sandia.gov**](mailto:ip@sandia.gov)

Refer to SD # 10710

or visit

[**https://ip.sandia.gov**](https://ip.sandia.gov)