

Atmos Portable Tightness Monitor

A portable tightness monitoring solution for single or multiple segments of aviation fuel hydrant systems - eliminating the need for costly leak detection specific infrastructure

Cost-effective alternative

Atmos Portable Tightness Monitor is a cost-effective alternative to retrofitting the appropriate instrumentation and automation needed to test airport hydrants in airports that lack a fixed leak test installation.

Features

- **Compliant with the 0.04l/h/m³ minimum detectable leak size standards set in EI1560, EI1540 & JIG2**
- **Field-proven pressure-step method**
- **Test cycle takes 30 minutes**
- **Fully portable in two watertight, crushproof PELI™ cases**
- **Powered by the DC supply from a support vehicle**
- **Depressurization manifold rated for use in 'Zone 1' explosive atmospheres**
- **Additional ability to test integrity of hydrant pit valve**
- **EU/ROW and US compliant versions available**



Benefits

- **One system can be used to test up to 5 segments (standard package)**
- **Requires no investment in civil works, communications, electrics or SCADA**
- **Uses the same technique to detect leaks as industry-standard, fixed installations**
- **Pressure-step method negates the effects of temperature change, increasing reliability**
- **Convenience - the operator can perform a tightness test at any time**
- **Contributes towards regulatory compliance**



System outputs

- Leak alarm for tightness test
- Tightness test report
- Integrity of hydrant pit valve report

The best Portable Tightness Monitor

Many years of experience in leak detection and tightness monitoring on hydrants in airports helped Atmos develop the world's best Portable Tightness Monitor to quickly test any segment by connecting the depressurization manifold to a hydrant pit valve via an EI 1584, Third Edition coupler. Alternatively, the operator can install Portable Tightness Monitor via a low-point drain or a high-point vent.

Atmos supplies the system in two PELI™ cases. The first case contains the computer unit and the second the depressurization manifold. A 12v DC plug powers the system.

On-screen prompts guide the operator through each stage of the 30-minute test.

The Atmos Portable Tightness Monitor uses the same, highly accurate pressure-step method as successfully deployed in the fixed installations of Atmos Tightness Monitor for many years. The pressure-step method negates the effects of temperature change during the test period ensuring high-accuracy results compared to other monitoring methods. Note that a one-degree centigrade temperature increase raises the fuel pressure by approximately 8 bar.



Screen display from the portable unit



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About Atmos International

Founded in 1995, Atmos International provides pipeline leak and theft detection, simulation technology, instrumentation and engineering services to the energy, water and associated industries. Atmos is the first choice of most pipeline companies worldwide, and is extensively used by major operators like Shell, BP, ExxonMobil, Petrobras, Enbridge and Total. With associated offices in the USA, China, Russia, Singapore, Indonesia, Colombia, Ecuador, Peru and Costa Rica, and local agents in 28 countries, our multi-cultural and multilingual team is dedicated to effective global support for the lifetime of our products all around the world.

