

# Atmos Eclipse



## A non-intrusive add-on leak detection module for Atmos Wave Flow and Atmos Pipe

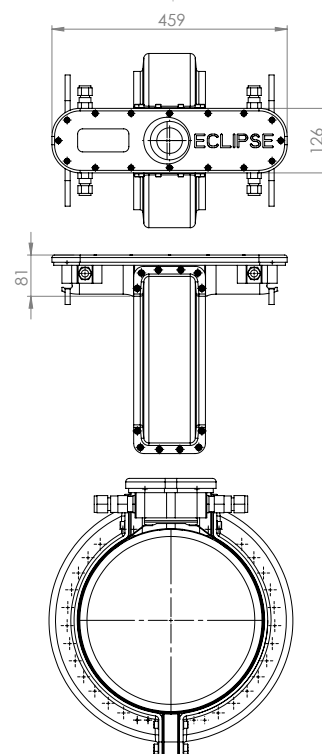
Easy to install and designed for rapid deployment by any end-user, Atmos Eclipse integrates non-intrusive flow, pressure, and temperature measurement instrumentation with cellular, radio and standard RS485 and TCP/IP communications to provide sensitive, real-time, pipeline leak detection anywhere it is needed.

This non-intrusive technology assures low-cost installation of leak detection for shut-in and flowing conditions with zero downtime. Atmos Eclipse measures bi-directional flow. Speed of sound is recorded so that the leak detection system can correct any density changes in the product. Atmos Eclipse can be deployed on long pipelines where little or no instrumentation is available.



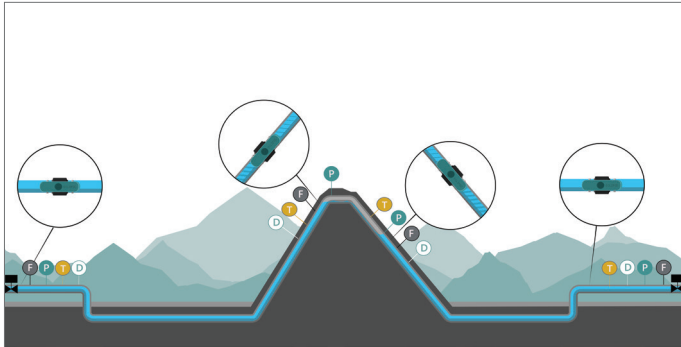
### Key benefits

- Instrumentation available including pressure, flow, temperature and speed of sound
- Full range of leak detection software available including negative pressure wave, flow balance, rupture. Works with Atmos Pipe
- Non-intrusive and low-cost installation
- Rapid deployment across multiple pipelines
- Multiple communications - TCP/IP, line of sight radio, GSM (3/4G) and Modbus
- 60hz data storage - in case of communications outages
- Broad range of power options - 110V-240v AC line, solar power, or 24v DC
- Explosion proof (Ex d packaging option for HCA areas of -20°C to +60°C)
- Works on painted lines
- ATEX certified
- Non-intrusive pressure sensing down to 10-15mBar (0.015barg)





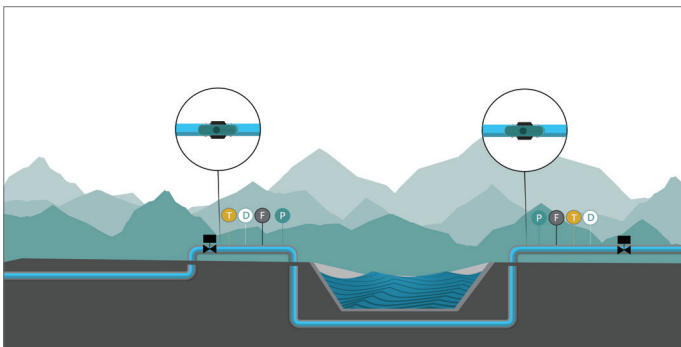
## Application areas



Operating in high elevation areas



Long distance with limited instrumentation



Short pipelines in HCAs eg river crossings

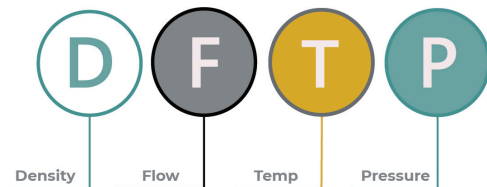


Short pipelines in urbanized areas

## Technical details

- Voltage: 24 VDC/110-240 VAC
- Power: 4.8W
- Operating temperature: -20°C to +60°C
- ATEX/IECEX: Zone 1 Gas IIA, T6
- Ingress: IP66 (IP68 options available on request)
- Material: Aluminium 6082 t6
- Coating: Epoxy
- Communications: 3G, TCP/IP, 862-928MHz RF Link, or RS485
- RF output: <1-2W
- Sample rate: 60Hz
- Pipe diameters: 4" to 28"
- Cable entries - 4 x M20 x1.56g
- Weight - 6.6Kg

## Key



Atmos International (Atmos) provides pipeline leak detection and simulation technology to the oil, gas, water, and associated industries. The company was founded in 1995 in the UK by the inventor of the statistical pipeline leak detection system – Atmos Pipe,

now one of a suite of leak and theft detection solutions from Atmos. These technologies are implemented on more than 1500 pipelines in over 60 countries, including major oil and gas companies such as Shell, BP, Exxon-Mobil, and Total.

With associated offices in the USA, China, Singapore and Costa Rica and local agents in 28 countries, the multicultural and multilingual team can provide effective support all over the world.

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