



Pipers® In-Line Screening Solution

- 3”- 120” diameter pipelines*
- Water, Wastewater, Raw Water



Overview

PICA now offers INGU Pipers® in-line screening technology as a solution to the North American water marketplace. These small diameter micro sensors float freely through most pipelines. Pipers® are an excellent solution to screen for local leaks, air pockets, deposits, as well as pipeline geometry and other information. Follow-up runs can be performed in the same line to compare results from the baseline run, with data results shown to be very repeatable.

Benefits of running Pipers®:

Free floating micro sensors:

- ✓ Detect leaks to find non-revenue water loss locations
- ✓ Spot air pockets with potential H₂S damage in wastewater lines
- ✓ Confirm Min/Max pipeline elevation locations along RoW
- ✓ Find major deposits and debris that increase hydraulic losses
- ✓ Measure pressure differentials indicative of bore restrictions
- ✓ Detect gross changes in metallic pipe thickness (<30” dia.)

Deployed with cleaning pig

- ✓ Obtain pipeline geometry showing major fittings and pipe bends
- ✓ Detect variance in location of pipes and fittings from records



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Applications

- Treated water, raw water or wastewater mains
- Lines that cannot be taken out of service
- Difficult to inspect (Non-piggable) pipelines
- Any pipe material (CI, DI, CS, AC, RCP, PCCP, PVC)
- Long pipeline lengths (24 hour battery limit)
- Deeply trenched pipelines
- New pipeline baselining

Details

Specifications:

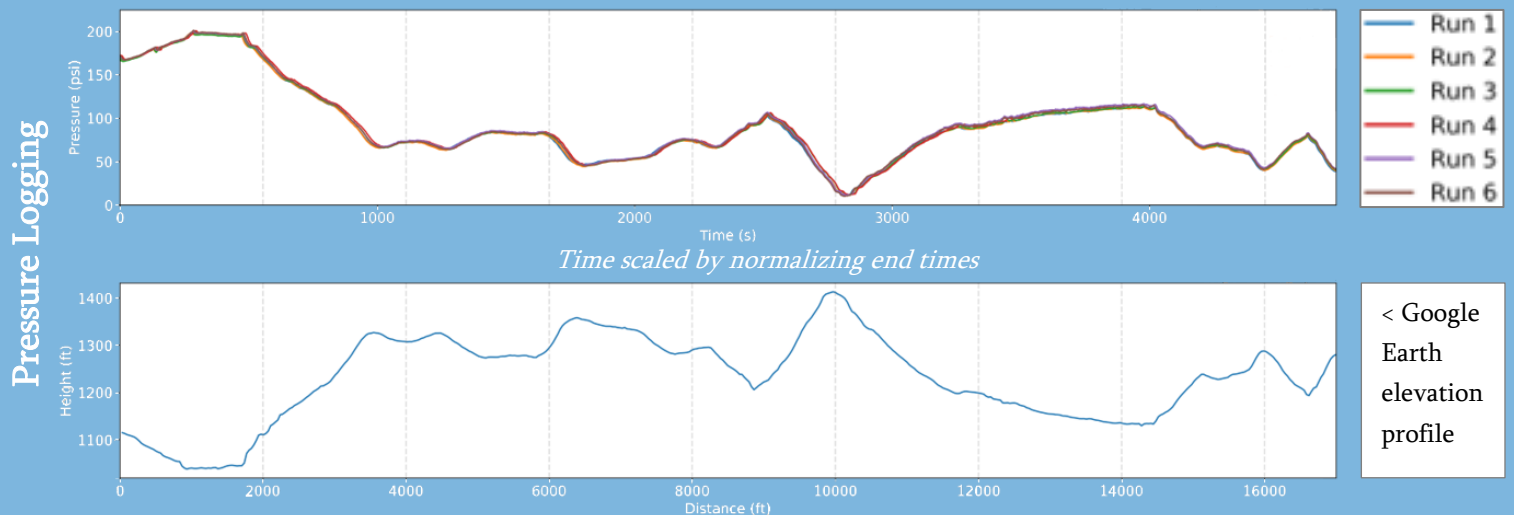
- 2.2 or 2.8 inches in diameter
- Pressures up to 1,450 psi (2.2" version), or 2,900 psi (2.8" version)
- -20°C to 60°C (-4°F to 140°F)
- 24-hour continuous run time
- Chemically inert

With built-in:

- Acoustic Sensor
- Accelerometer
- Gyroscope
- Magnetometer
- Pressure Sensor

Pipers® in-line inspection solution efficiently detects non-revenue water loss locations, thus providing a low-cost pre-screening method for asset managers.

Final reports detail findings and provide location information correlated with all available client records.



Pressure log generated by 6 Pipers® runs (shown on top), reflecting the elevation profile of the pipeline (bottom graph)



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