



**AUTOMATED
METER READING**



Hydrophone Sensors

Correlation Sensor

Hydrophone sensors are used to improve performance on traditionally difficult leak detection situations such as on plastic and larger diameter pipelines. They can be used with HWM Palmer correlators including MicroCorr Digital DX, DigiCall, MicroCall+ and MicroCorr Touch.

The hydrophone sensor itself is an extremely sensitive marine sensor, which listens in the water column. Typically leak noise travels at greater distances through the water inside the pipe, than through the pipe wall and fittings. Low frequency noise also travels best; hydrophone sensors are particularly sensitive to this low frequency noise.



Key Features and Benefits

- **Improved results:** Improves leak detection results on pipes that transmit leak noise poorly (e.g. plastic and large diameter pipes)
- **Flexible:** Works with Palmer correlators
- **Sensitive:** Highly sensitive to low frequency noise.
- **User friendly:** Supplied with a range of adaptors for easy connection to different fittings.
- **Innovative:** Allows leaks to be located and pinpointed in situations where standard accelerometers will not.
- **Access point detection:** Leaks can be detected using available access points, where this cannot be achieved with standard sensors.

Applications

The Hydrophone sensor kit includes a range of adapters to easily connect to many fittings. There are specific adapters for connection to hydrants and 'Atlas' type meter box access.

The Hydrophone is designed for deployment on site, a locking ring locks the adapter in place, and a bleed valve is operated to remove air from the sensor chamber to ensure the best quality sound. The unit is tightened in place with a standard valve key.



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MONITORING ASSETS, DELIVERING DATA, BRINGING CONTROL

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