

# REAL-TIME ACOUSTIC SAND MONITORING



## REAL-TIME ACOUSTIC SAND MONITORING FOR OIL, GAS, WATER AND MULTIPHASE PIPELINES

Utilising acoustic noise generated by the inertia of sand particles impacting the inner surface of production pipe walls, this non-intrusive device can identify and derive real-time sand production in any oil, gas, water and multiphase flow lines.

The sand rate in g/s obtained can be used by the operator to calculate Maximum Sand Free Rates (MSFR) or maximum Acceptable Sand Rates (ASR).

## QUICKLY IDENTIFYING THE PRESENCE OF SAND CAN MINIMISE POTENTIAL EQUIPMENT DAMAGE

As the deterioration is unseen, monitoring the hidden damage and providing real-time data to indicate where problems could occur is crucial.

The acoustic sand monitor could also be configured as a sand indicator, indicating whether there is no sand, some sand or excessive sand production or fully calibrated to provide sand rates in gram/sec, g/s.



### HIGH SENSIVITY

Instantaneous response to and early identification of sand production and an ideal solution for HPHT productions



### SAFETY

Identification of sand allows for early intervention and mitigation. Equipment is installed non-intrusively on the outer surface of the pipe



### DATA STORAGE

Up to 90 days of data storage in flash memory. Comes with two wire RS-485 and modbus RTU

