

Well Flow Management

Well Testing | Ancillary

Ultrasonic Thickness Meter

An Ultrasonic Thickness (UT) meter provides the ability for periodic wall thickness analysis to be performed on pipework and vessels either during well test flow periods or as part of the pre or post-test inspection schedules of equipment.

UT inspection is essential during high rate gas testing where high velocity flow may cause erosional damage to equipment. The meters are also vital on wells involving solids production and when sand management systems are deployed for the same reason.

There are various models and types available;

Type 1

- ATEX & IECEx certified for Zone 1 IIC T4 hazardous areas
- Intrinsically safe probe supplied as standard
- Full colour, backlit screen
- Multiple calibration and zeroing modes for repeatable accuracy

Type 2

The meter is a rugged, shock-proof multiple echo ultrasonic surface thickness gauge designed for safely measuring metal thickness or corrosion in potentially explosive environments.

Using multiple echo technology measurements are error checked using 3 return echoes to provide repeatable, reliable results.

Supplied ready to use in a protective carry case with 2 rechargeable batteries, the meter can achieve up to 10 hours of continuous testing before recharge is necessary.

Alternative meter types may be considered, dependant on the scope of work to be performed on a contract by contract basis. Due to the need to operate in close proximity to live fluid flow paths, UT meters must be intrinsically safe to prevent the risk of explosive ignition.

Applications

- Onshore well testing
- Offshore well testing
- Well clean-up

Features and benefits

- Limit value guides and monitoring
- Adjustable sensitivity
- Easy to use
- Energy saving mode

