

Permasense launches an enhancement to its successful range of wall thickness sensors specifically for the upstream sector.

The ET210 Integrity Monitoring System delivers real time wall thickness and temperature measurements from online equipment and piping to your desk, enabling *safer* and *more profitable* operation of producing assets.

At current price levels, oil and gas producers are under pressure to reduce OPEX whilst CAPEX projects are being delayed or cancelled. The need to drive revenue by producing as much as possible from existing assets (by maximising production rates and minimising downtime) has never been greater. All the while, the assets must be operated safely to avoid serious incidents or harm to personnel or the environment.

Reduce OPEX safely

Automated high-quality measurement delivery enables a reduction in the number of inspection personnel flying offshore to perform dangerous work in hazardous environments.

Maximise revenue from producing assets

- **Maximise production rate:** validate this is not damaging the asset by monitoring integrity in real time.
- **Minimise downtime:** detect and act upon corrosion or sand erosion events and optimise mitigation quickly online. Then validate that the mitigation strategy continues to perform adequately in light of ever-changing operating conditions.

Avoid Major Incidents

Detect and act upon corrosion or erosion events long before loss of containment and avoid the harm to personnel, the environment and corporate reputation these incidents can cause.

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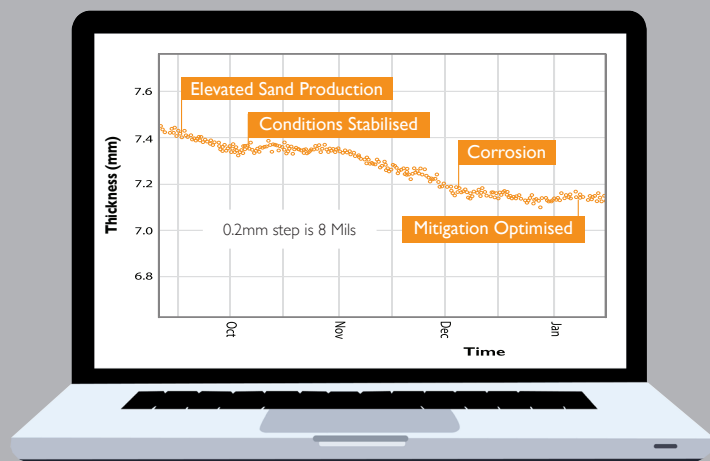
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ET210 WiHART INTEGRITY MONITORING SYSTEM





Unique Features

Safe, quick and easy online installation:

completely non-intrusive, no need to remove external coating, compact form factor, no cabling.

No data retrieval costs or delays:

automated real time wireless (wireless HART) data delivery into existing IT infrastructure for viewing and analysis in Permasense Data Manager or in-house application at desk.

No maintenance:

ultra low power consumption enables battery life of up to 6.5 years.

Deploy anywhere on topsides or above ground:

intrinsically safe sensors.

Wide-ranging applications

Onshore or offshore assets: risers, flow lines, piping, vessels, processing equipment.

Install anywhere on topside or above ground metalwork, including:

- in areas with known internal damage
- in areas at elevated risk of corrosion or erosion such as elbows
- in areas with limited accessibility

A global supplier with experience in and focus on oil and gas

Permasense is the global leader for continuous integrity monitoring systems. We have shipped over 13,000 sensors to Oil & Gas customers worldwide. Those installed sensors have delivered over 13 million wall thickness measurements to the desks of those who need this enhanced quality and frequency of data to operate their facilities more safely and profitably. The ET210 specifically designed for the upstream sector:

**PERMASENSE SYSTEMS
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120 BUSINESS UNITS
WORLDWIDE**

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