

Contactless flow measurement for the Oil & Gas Industry. The clamp-on mounting technique allows the flow of oil and hydrocarbons to be measured safely and accurately without the need to open pipes.

Specifications

- **Installation:** Permanent
- **Medium:** Oil, Hydrocarbons, Produced Water
- **Pipe Materials:** All common metals, plastics and more
- **Pipe Diameters:** 10 to 3,000 mm
- **Flow Velocities:** 0.01 to 25 m/s
- **Accuracy:** Up to $\pm 0.5\%$ for volume flow and flow velocity

Application



Oil platform operators have been requiring contactless flowmeters which meet strict guidelines for hazardous areas.

Instrument Solution



Katronic offers an ATEX certified version of the ultrasonic clamp-on flowmeter KATflow 150 for the Oil & Gas Industry.

Measurement Task

Within the Oil & Gas Industry there are various applications which require to measure flow of liquids such as oil, hydrocarbons or produced water. Oil platform operators for example have to ensure that they are adhering to the directives of oil discharge guidelines. They therefore have to find a way to reliably and accurately monitor the platforms' discharges such as produced water.

These circumstances lead to the situation that flowmeters often have not been installed on pipelines where monitoring was originally not necessary. In this case, instruments which can subsequently be installed to pipes of various materials and diameters without the need to interrupt ongoing processes are in high demand.

Solution

Taking the above mentioned requirements into account, Katronic's ultrasonic clamp-on flowmeters are the perfect solution for various applications of the Oil & Gas Industry. As the sensors are clamped onto the pipe surface, platform operators do not have to face large costs caused by lost production and intensive engineering work as it is normally the case during the installation of inline meters.

Katronic can supply fully ATEX certified metering solutions and within an hour the operator could have fitted a flowmeter. More importantly, Katronic have the application experience in the offshore industry to know that measurement of produced water systems is possible in all the different pipeline materials used offshore, including duplex pipes.

Leading companies of the industry such as BP and Schlumberger have already installed Katronic flowmeters on platforms for produced water metering. In the case of BP, Katronic's ultrasonic meters were used to monitor produced water pipes where electromagnetic meters failed.

Advantages

- Easy, quick and cost-effective installation on existing pipelines
- ATEX certified flowmeters for use in Zone 1 hazardous areas
- Applicable on pipes of various materials (incl. duplex stainless steel) and diameters from 10 mm to 3,000 mm
- Various power supply options (AC, DC, battery, solar powered)
- Easy integration into existing or future control systems possible
- Maintenance free, very low MTBR (mean time between repairs)

Katronic Technologies Ltd.
23 Cross Street
Leamington Spa
CV32 4PX
United Kingdom

Phone: +44 (0)1926 882954
Fax: +44 (0)1926 338649
Email: info@katronic.co.uk
Web: www.katronic.co.uk

