

Contactless flow measurement for the Marine & Shipbuilding Industry. Katronic's ultrasonic flowmeters contribute to an increased fuel efficiency of ships and shorter maintenance and commissioning periods.

Specifications

- **Installation:** Portable & fixed installed
- **Medium:** Water, Fuel, Oil, Cooling Liquids
- **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



Whether they are for cruise, cargo, tanker or naval ships - clamp-on flowmeters contribute to their maintenance and fuel efficiency.

Instrument Solution



The KATflow 200 ultrasonic clamp-on flowmeter is an ideal tool for commissioning or maintenance related spot measurements.

Measurement Task

The fluid systems on medium sized and large ships are often complex, with many kilometres of pipes feeding a variety of liquids to different areas of the vessel. Maintaining and controlling these flows can therefore be a difficult and time consuming process.

During the final commissioning of a ship, all fuel, oil, water, cooling and fire fighting systems must be tested and proven prior to hand-over. In addition to that, all these pipes must be tested and checked on a regular basis once any ship is in service.

These measurements can be difficult, as the pipe integrity must be maintained and access to the pipes is not always straightforward.

Solution

The KATflow ultrasonic clamp-on flowmeters can provide a solution for the described applications. The hand-held KATflow 200 is an ideal tool for spot checking and maintenance work on fuel, oil, cooling and water lines. In addition to that, the KATflow 200 is playing a key role in the development and testing of modern ship fire extinguishing systems.

Apart from cost effective commissioning and maintenance measurements, the improvement of fuel efficiency is another issue which has gained greater importance in recent years. In order to reduce the operating costs of ships, several shipping companies have asked Katronic to install ultrasonic clamp-on flowmeters for the continuous monitoring of fuel and oil lines in engine rooms. For this purpose Katronic offers the fixed installed flowmeter KATflow 150.

Katronic has been supplying leading names in the marine & shipbuilding industry for several years such as the Royal Navy, Rolls Royce, Stena Drilling and various ferry and cargo ship operators.

Advantages

- **Easy, quick and cost-effective installation on existing pipelines**
- **Applicable on pipes of various materials, diameters and liquids**
- **Continuous measurements of fuel and oil lines in engine rooms and integration into existing or future control systems possible**
- **Spot measurements easily carried out even in most confined spaces with hand-held KATflow 200**
- **KATflow 150 suitable for on-deck installation due to ingress protection up to IP68**

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