



### 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

One such example of this was when Katronic were asked to provide eleven flowmeters for installation in one of the world's largest privately owned superyachts VAVA II. The vessel built in the UK is 97 metres long and represents a pinnacle of UK craftsmanship.

The Katronic flowmeters were purchased as part of the engine management system and were responsible for monitoring all the main water inflows and outflows to the ships' four engines. The clamp-on flowmeters were selected for this project as access to metering locations was extremely restricted and the design company did not wish to use invasive instruments for reasons of maintenance at sea.

Engineers from Katronic were then involved in the commissioning stages of the system whereby the KATflow 200 portable flowmeter proved to be a vital tool in establishing the best installation for the permanent meters.

### ADVANTAGES

- Easy installation in confined spaces
- Applicable on pipes of various materials, diameters and liquids
- Easy, quick and cost-effective installation on existing pipelines
- Continuous measurements of fuel, seawater and oil lines in engine rooms
- 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 IP 68

### SPECIFICATIONS

Installation type	Fixed
Medium	Seawater
Pipe materials	Copper/Nickel Bronze
Pipe diameters	50 ... 100 mm
Temperature	Up to +130 °C
Special requirements	All flowmeters with customer-specified paint finish

### APPLICATION



Katronic flowmeters were installed on superyacht VAVA II, one of the largest ever built.

### INSTRUMENT SOLUTION



Eleven KATflow 100s were installed on VAVA II.

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