

## TANK CONTENT MEASUREMENT

Precise monitoring of ballast, fuel and other liquid tanks with proven sensor technology

Hoppe Tank Content Measurement Systems provide continuous and accurate monitoring of liquid tanks onboard. Reliable sensor technology, intelligent data processing and flexible system architectures ensure precise tank content information for safe and efficient vessel operation.

### Why Tank Content Measurement

- Continuous monitoring of ballast, fuel oil and other liquid tanks
- Reliable in-house designed sensor technology
- Experience from more than 275,000 installed sensors
- Tank table and trim correction functionality
- Integration into ship management and automation systems
- Multiple visualization and indication options available

#### Electric

- Hydrostatic pressure sensor technology
- Accuracy better than 1 cm or 0.3%
- Adjustable measuring range up to 4,000 mbar
- Bus-type sensor installation
- Smart sensor design with digital intelligence
- Predictive maintenance capabilities

#### Pneumatic

- HOBUB electro-pneumatic measurement system
- Central cabinet installation
- Individual flow monitoring and control
- Individual purge function
- Flexible substation concept
- Multiple signal output options

|                    | Pneumatic                                 |        | Electric                                       |          |
|--------------------|---|--------|--|----------|
| Sensor Environment | protected inside cabinet                  | +      | exposed environment needs good quality product | (-)      |
| Accuracy           | less accurate – depending on installation | -      | very accurate                                  | +        |
| Installation       | pipng work                                | -      | only cable bus loop                            | +<br>++  |
| Costs              | system lower<br>installation higher       | +<br>- | system higher<br>installation lower            | (-)<br>+ |

## OUR PRODUCT RANGE

### Fluid & Floating

- Valve Remote Control
- Anti-Heeling
- Tank Gauging
- Flume Anti-Rolling
- Intering Anti-Rolling
- Distance Measuring
- Draught Measurement
- Electronic Inclinometer
- Dynamic Draught and Floating Monitoring
- Floating Condition Control

### Performance & Energy

- Emission Monitoring
- Energy Measurement
- Shaft Power Meter
- Fuel Measurement
- Energy Saving Solutions
- Crew Connect
- Performance Monitoring
- Data Collection and Acquisition

### Fleet Services

- Spare Parts
- Technical Service
- Retrofit- And Upgrades
- MIoT Digitalization Upgrade

[www.hoppe-marine.com](http://www.hoppe-marine.com)

