



## Ballast water tanks

- Reliable
- Exact level measurement in abrasive and aggressive seawater
- Cost effective
- Low installation and integration costs
- User friendly
- Maintenance-free operation due to seawater resistant materials

### Level measurement in the forepeak, wing and double bottom tanks with ballast water

The ballast water measurements in the wing and double bottom tanks go directly into the control system for the ship trim, draught and list. Since these measuring points are virtually inaccessible during operation on board, reliability and stability are an absolute must. Pressure shocks, abrasive sand particles and seawater place additional heavy demands on the instrumentation.

#### ▫ VEGAWELL 52

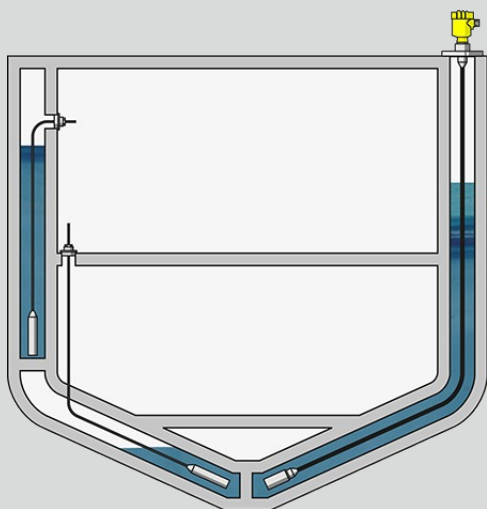
Hydrostatic submersible pressure transmitter for level measurement in the ballast water tank

- Reliable, durable and robust, seawater-resistant sensors
- Ceramic measuring cell for exact and long-term stable measurement, even with pressure shocks and abrasion
- Simple installation from above or the side

#### VEGABAR 86

Hydrostatic level measurement of ballast water in the double bottom tank

- Stainless steel housing protection to class IP 69K and ceramic measuring cell, offer the perfect sensor for the conditions in a double bottom tank
- Climate compensated electronics provide complete protection against high humidity
- On-site installation and ventilation of the electronics possible





VEGAWELL 52	VEGABAR 86
Measuring range - Pressure 0 ... 60 bar	Measuring range - Pressure 0 ... 25 bar
Process temperature -20 ... 80 °C	Process temperature -20 ... 100 °C
Process pressure -	Process pressure 0 ... 25 bar
Accuracy 0.1 %	Accuracy 0.1 %
Materials, wetted parts PVDF 316L Duplex (1.4462) FEP PE 1.4301 Titanium	Materials, wetted parts PVDF 316L FEP PE PUR
Seal material EPDM FKM FFKM	Threaded connection ≥ G1½, ≥ 1½ NPT
Protection rating IP66/IP67 IP68	Flange connection ≥ DN 40, ≥ 2"
Output 4 ... 20 mA 4 ... 20 mA/HART - two-wire	Seal material EPDM FKM FFKM
Ambient temperature -40 ... 80 °C	Housing material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)
	Protection rating IP66/IP68 (0,2 bar) IP66/IP67 IP66/IP68 (1 bar) IP66/IP68 (25 bar) IP69K