

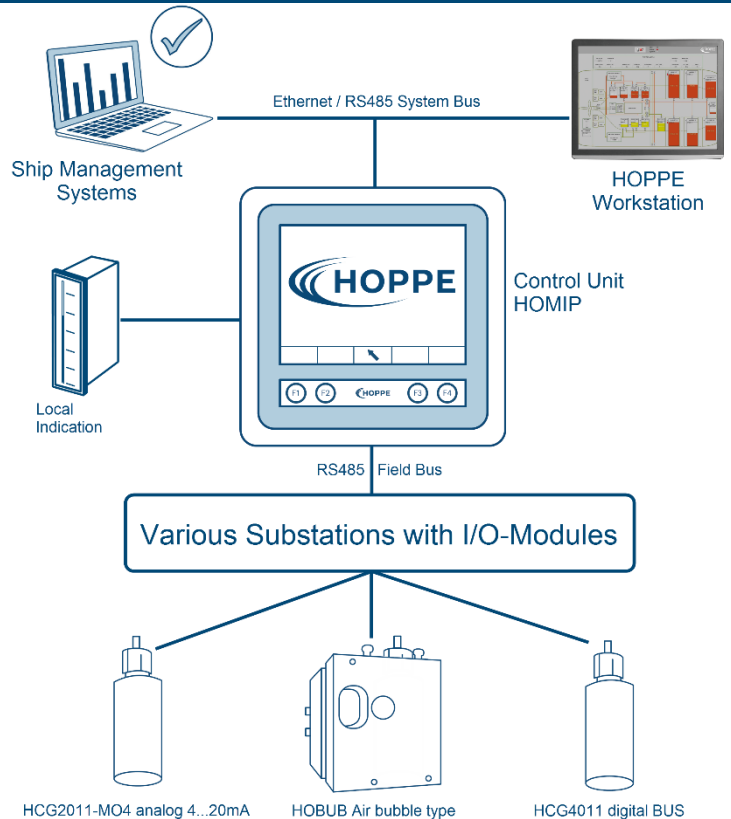
SYSTEM

The Hoppe Tank Content Measurement System monitors the contents and temperatures of ballast, cargo, fuel oil and other liquid tanks. Additionally the vessel's draught can be measured precisely by using Hoppe's draught Measuring System. As in other Hoppe systems the control unit HOMIP acts as the signal hub between all process components and control workstations or other centralized ship management systems with Ethernet TCP/IP, serial RS485 and RS422 interfaces. The integrated 6" touch screen display offers a structured interface for system configuration, parameter settings and full back-up operation. The system setup is designed for centralized and decentralized installations. The processing of tank content data to mass, height, volume and density is our responsibility.



FACTS & FEATURES

- Hydrostatic pressure sensors HCG
 - HCG 2011 analogue type 4...20mA
 - HCG 4011 digital BUS type
 - Stainless steel powder coated or titanium housing
 - PT-100 temperature sensor integrated
 - Pluggable sensor cables
- Electro-pneumatic pressure sensors inside cabinet
 - Air flow indication and adjustment
 - Stop and safety valves
- Resistant to foaming ("cappuccino effect")
- Nominal measuring ranges 0 mbar (0 meter) – 4000 mbar (40 meter)
- Air bubble system with purge-function for quick cleaning and flawless operation
- Class-approved ball valves and welding blocks for direct installation on ship's hull
- HOSET 2.0 Sensor Toolbox for easy maintenance and troubleshooting of hydrostatic pressure sensor HCG2011-MO4
- User-friendly GUI on the control unit HOMIP plus PC-based software, connected with the TG-system and loading computers for support of ballast water operations and vessel's efficiency



TECHNICAL DATA HCG2011-MO4 ANALOG PRESSURE SENSOR 4...20mA

Measuring range	160mbar – 3200mbar
Output signal	4...20mA, 2-wire
Temperature measuring	PT100
Housing material	Stainless Steel / Titanium
Degree of protection	IP 68; submersible, up to 10 bar
Application range	-40°C - +120°C



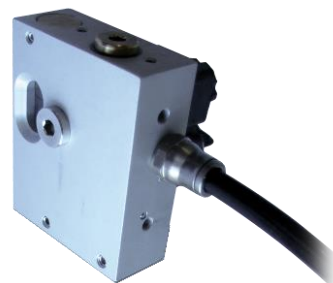
TECHNICAL DATA HCG4011 DIGITAL BUS SENSOR

Measuring range	0mbar – 3200mbar
Output signal	bus signal, half-duplex, interface RS485
Temperature measuring	PT100
Housing material	Stainless Steel / Titanium
Degree of protection	IP 68; submersible, up to 10 bar
Application range	-10°C - +100°C



TECHNICAL DATA HOBUB AIR BUBBLE TYPE SENSOR

Measuring range	0mbar – 4000mbar
Supply voltage	24 VDC
Valve type	3/2-way magnetic valves
Max. valve operating pressure	3 bar
Application range	-10°C - +70°C



TECHNICAL DATA HOSET 2.0 SENSOR TOOLBOX

Equipped with	HCG2011-MO4-Sensors, Pump Station, Consumables
	Sensor Adaptors (FW, KS, GW),
	Manometer (2.5 bar and 0.6 bar),
	HART-Modem, USB-Storage Device,
	Consumables and Tools
Dimensions / Weight	540x380x180mm, 9.9 kg
Degree of protection	IP 65, robust hard case

