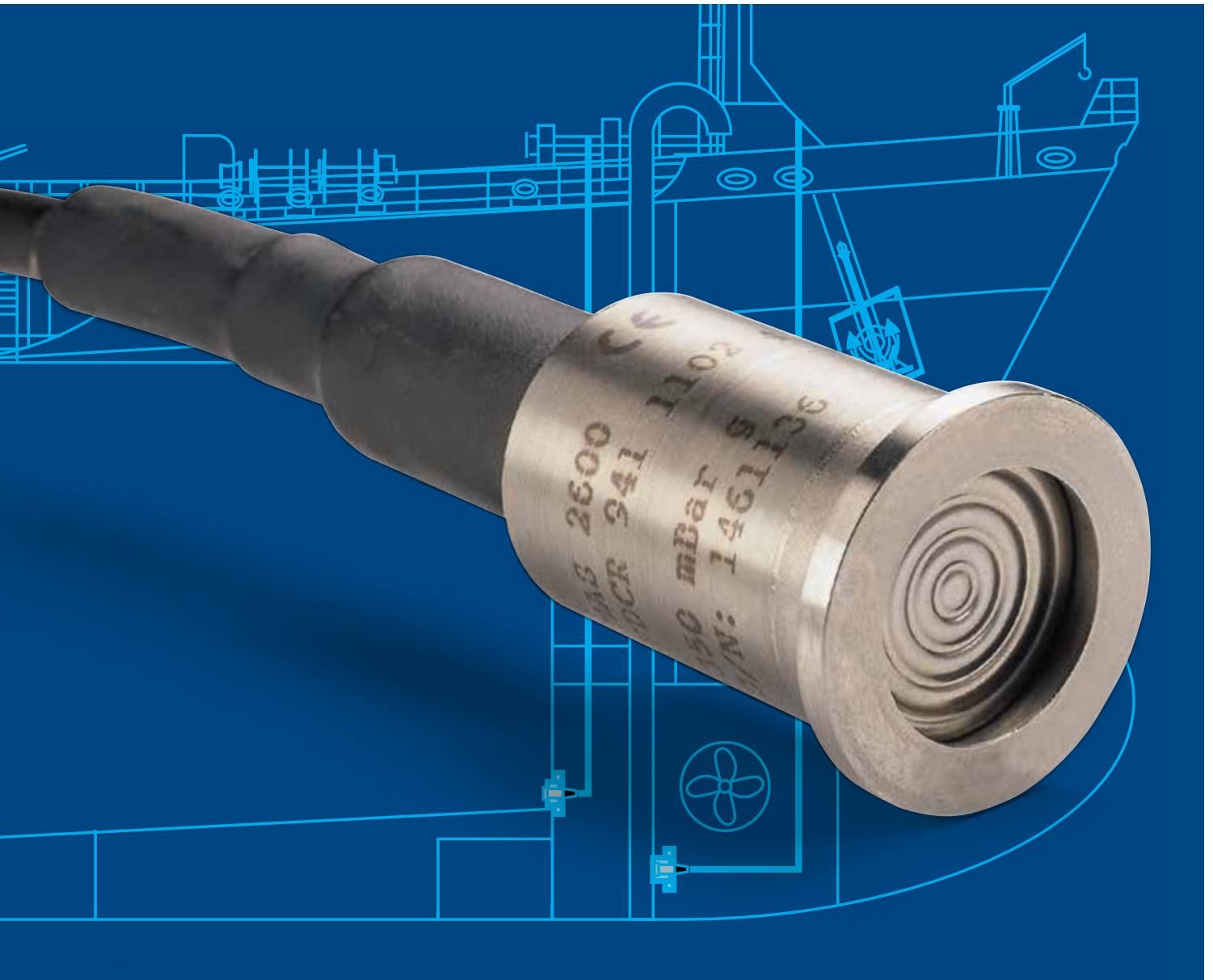


# MAS2600 Electronic Tank Level Gauging

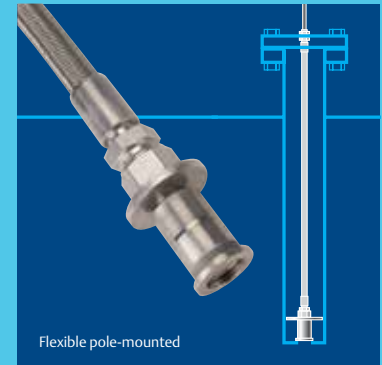
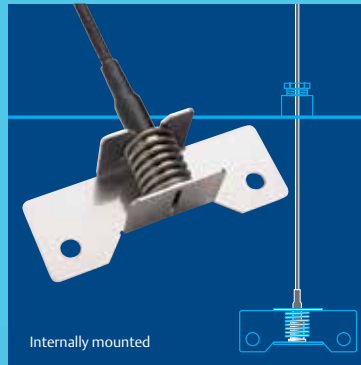
Robust and durable design for reliable operation



MAS2600

# MAS2600 tank contents transmitter

The reliable MAS2600 is a leader in pressure transmitters for level measurement. Throughout the years, MAS2600 has been successfully installed on vessels and offshore constructions. It takes just a moment to find out why.



The transducer is fully welded, housed in titanium with a titanium diaphragm and is submersible (IP68).

The transducer is a pressure sensitive silicon micro strain gauge sensor mounted in a glass to metal seal. The sensor is protected by an isolation diaphragm, electron beam welded to the transducer housing, with an oil filling between the sensor and the diaphragm.

Pressure changes in front of the diaphragm bring about a resistance change in the Wheatstone bridge of the transducer. This change in the Wheatstone bridge is transmitted to the amplifier as a change in the signal.

## Titanium housing and diaphragm

One of the unique features of MAS2600 is the titanium housing and diaphragm that make this transmitter exceptionally sea-water resistant.

## Accurate and reliable measurement

MAS2600 is a high performance transmitter with superior linearity and hysteresis. It features a special strain gauge sensor with a considerable overload capacity which allows for sudden rises in pressure,

e.g. when filling tanks or if tank contents move in rough seas.

## Programmable amplifier

MAS2600 is available in four measuring ranges. Within these ranges, the amplifier has 8 programmable steps. Zero and span are adjusted by means of a potentiometer.

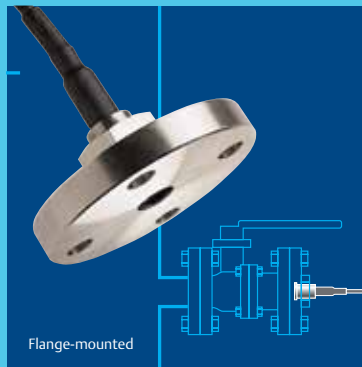
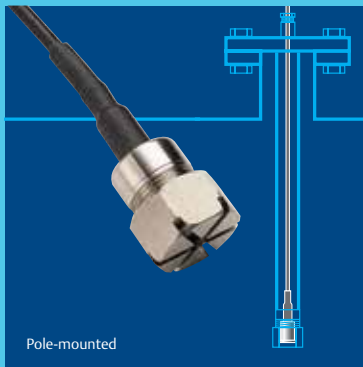
## Type approvals

MAS2600 meets all the strict requirements made on marine equipment. It is type approved by all major marine classification societies and approved for offshore industry applications.

## Robust and durable design

The transducer is fully welded without any joints or gaskets. Due to the robust design of its exterior parts, MAS2600 withstands mechanical shocks and vibrations.

On board tankers, the transducer can be installed in ballast tanks with the amplifier mounted on open deck.



The MAS2600 is a 2-wire 4-20 mA level transmitter consisting of a transducer and an amplifier connected via a 6-core vented cable. The amplifier is housed in a sea water-resistant polyester casing (IP56).

### Versatile and easy installation

MAS2600 is designed for any kind of tank gauging application and for draft measurement. The transducer is characterized by its genuine versatility: One sensor type can be used for a variety of installations, e.g. inside or outside the tank with top or side entry.

MAS2600 can be installed in both closed and vented tanks with transducer ambient temperatures ranging from -20°C to +125°C.

### Cost-effective solution

MAS2600 is competitively priced and it easily replaces previously mounted transmitters. The versatile, one-version MAS2600 facilitates the reduction of stock spares and maintenance costs.

As a further advantage, the lightweight design keeps shipping costs to a minimum.

#### Technical Specifications

Transducer Ranges:	0-3.5 / 0-7 / 0-16 / 0-35 mH <sub>2</sub> O Gauge and 0.8-2 / 0.8-3.5 bar absolute	
Programmable Measuring Ranges:	Each transducer range is programmable in 8 steps	
Accuracy:	± 0.25% F.S. at 20°C	
TEB (Total Error Band):	± 0.4% F.S. at 0 to +50°C	± 2.0% F.S. at -20 to +80°C
Overload Capability:	Min. 4 x transducer range with no changes in calibration	
Burst Pressure:	6 x transducer range	
Built-in Temperature Sensor Pt100:	Optional	
Diaphragm:	Titanium	
Sensor Housing:	Titanium	
Output:	Current: 4-20 mA DC, 2-wire system	
Power Supply:	14-33 VDC Rloop max. (Kohm) = (Uloop-14V)/32 mA	
Current Limiting:	Typically: 25 mA, Max: 32 mA	
Operating Temperature Ranges:	Transducer: -20 to +125°C	Amplifier: -40 to +85°C
	Cable: Standard: -20 to +80°C	High temp.: -20 to +125°C
Protection Class:	Transducer: IP 68 / Amplifier: IP 56	
Intrinsic Safety:	Eex ia IIC T4 compliant. Max. 44 m cable between transducer and amplifier	
Classifications:	DNV, GL, LRS, MRS, BV, RINA, NK, PRS, KRS, ABS, MSA, DEMKO	

# Expertise within Marine Tank Management

Emerson Process Management (emersonprocess.com), an Emerson business, is a leader in helping businesses automate their production, processing and distribution in the chemical, oil and gas, refining, power, water and wastewater treatment, metals and mining, pulp and paper, food and beverage, pharmaceutical and other industries.

Emerson's Marine Tank Management division is part of Emerson Process Management. Our expertise covers integrated tank management systems, valve remote control, cargo tank gauging, ballast, fuel oil and service tank monitoring and draft measurement for all types of ships and offshore units.

Our brands – Damcos, LevelDatic, MAS2600, Rosemount TankRadar – have served marine customers for more than 30 years and together represent the foremost thinking within marine tank management. What really sets us apart is our dedication to the marine sector and engineering excellence. This is reflected in all aspects of our offering, from design and production, through to application know-how and global after-sales support.

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