

Intelligent instrumentation for the marine industry

PSM Instrumentation Ltd

30 Years of Marine Tank Gauging Solutions

PSM has almost 30 years experience in the design, manufacture and application of instrumentation for a worldwide spectrum of industries

Our expertise in the field of marine industry liquid level is unparalleled. This history, dedicated to providing solutions for diverse and arduous applications has provided the know-how to develop technically innovative purpose-made instrumentation specifically engineered to combine value with optimum performance, reliability and ease of use. Marine society type approvals, Naval shock and EMC codification are applied to all appropriate products.

experience that counts

Today our capabilities extend to the design, supply and commissioning of complete measurement solutions, from intelligent transmitters and local gauging to the installation of turn-key centralised monitoring control systems.



digital technology provides real benefits

PSM has taken the most suitable and repeatable materials available for sensor manufacture and drawn upon its global application experience across all industries, to develop a liquid level transmitter that offers the highest possible standards in terms of performance, versatility, functionality, and reliability.

Digitally controlled sensors provide the ability to construct an entire ship gauging system with multi-dropped transmitters operating over only two or four wires. The pressure overload capability is unrivalled, easily dealing with the shock pressures that routinely occur in these duties.

marine specialists

In these demanding sectors, PSM's name is known worldwide for the quality and dependability of its products. Sensors and systems for tank gauging and draught monitoring are provided for all classes of vessels, from small workboats through supertankers, to warships and submarines.

application solutions

PSM is continually developing solutions



The Bulksafe system, a recent addition to our range, fully demonstrates this. Providing a Water Ingress Detection and Alarm System in full compliance with SOLAS and IMO regulations, the Bulksafe solution offers full installation flexibility and numerous operational benefits.



marine approvals

- * Lloyds Register
- * Germanischer Lloyd
- * Bureau Veritas
- * D.N.V.
- * R.I.N.A.
- * Korean Register
- * ClassNK
- * A.B.S

All products designed and manufactured under our ISO 9001:2000 accreditation.

specific solutions for:

- * Cargo Tank Gauging
- * Cargo Over-Pressure Systems
- * Ballast Tank Gauging
- * Service Tank Gauging
- * Draught Measurement
- * Cargo Overspill Alarm Systems
- * Automatic Dewatering Systems
- * Bilge Monitoring
- * Water Ingress Alarm System for Bulk Carriers

solutions for the future

PSM's latest systems harness the benefits of digital technology to provide reduced equipment and installation costs, ease of use and enhanced accuracy and reliability

www.psm-sensors.co.uk

Hydrostatic level transmitters

Proven robust & reliable in 1000's of Ships world-wide the PSM hydrostatic transmitter is a cost effective solution for all shipboard service & ballast Tanks. High accuracy versions are also in use for Cargo tank measurement. Corrosion resistant materials, high overload capability, and a wide choice of fittings ensure simple installation & serviceability.



New... iCT High performance dual mode liquid level and temperature transmitter

This unique transmitter utilises a sensor impervious to chemical attack which is fully supported and protected against overload and shock pressure conditions, and offers both digital and analogue output options with a complete range of mounting options suitable for F.O. Ballast Cargo etc.



WaterReel

The new intrinsically safe WaterReel water in oil level detector is a portable self-contained device which detects the presence of water contamination accumulated in the bottom of fuel oil storage tanks.

It guards against potentially expensive engine / pump failures due to water ingress.



Bilge water level switch

This compact, extremely rugged, all stainless steel and fully submersible device incorporates a manual checking lever which conforms to class rules without complicating installation.



PSM

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Intelligent instrumentation for the marine industry



iTM Single and multi-channel Intelligent tank monitors

From a single tank installation to a complete ship wide network, the flexibility and connectivity offered by all units ensures that tailoring the optimum system for your particular application is straightforward and simple.

Tankview—a complete PC based tank contents display and control software system

This simple to operate graphic display software running within the Windows environment provides the user with a clear picture in both graphic and numeric format.



TDR Radar

The TDR (Guided wave radar) family is set to offer an alternative to the high-end non-contact Radars. Requiring just a passive rod to be installed in the tank the TDR offers high performance levels and enhanced reliability under all operating conditions - without the high-end costs.



FMCW Radar

PSM's 26GHz FMCW radar provides clear performance advantages over earlier generation 10GHz FMCW and simple 'pulse' radar devices.

An enhanced bandwidth of 2GHz provides a greater dynamic range than previous devices, and compared to pulse radar, the user benefits from better noise reduction, reflection resolution, smaller beam angle and reduced antenna size.



Specialised solutions:

- * Overpressure alarm systems
- * Display & control panels
- * High level alarm systems



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