



Whether for onshore or offshore oil and gas applications, Delta Mobrey is certain to have a product to suit the needs of this industry.



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Introduction - Oil & Gas

Measuring Your Success

According to recent figures the Oil and Gas industry was worth \$7425.02 billion* and this global industry is developing new oil fields in regions such as Surinam, South Africa, Newfoundland and Cyprus.

It takes a dedicated range of products and services to ensure that all levels of safety are adhered to, processes are managed and efficiencies achieved, all within hazardous environments. Delta Mobrey understands this and has supplied over a million switches and transmitters to the Oil and Gas Industry for both onshore and offshore applications.

Our range of process instrumentation products work within upstream, midstream and downstream applications and have international accreditations to give you peace of mind, no matter where you are working.



*Industry reports dated 4 March 2021

Products

Across several decades Delta Mobrey has supplied over a million switches, transmitters and conductivity probes for the Oil & Gas industry with both onshore and offshore applications. Below are some examples of our range...

Level



Magnetic float level switches & chambers

- Simple, rugged and reliable for the most arduous environments up to 400°C & 200 bar.
- Glandless for safety and minimum maintenance.
- Materials of manufacture chosen specifically to meet the needs of the industry.
- Flameproof or Intrinsically Safe (IS).



DMSP400, 422 & 500 Transmitter

- Fast fit and commissioning for reduced start-up costs.
- Minimal maintenance costs with non-contacting technology.
- Ideal for level, contents, volume, or open channel flow applications.
- Two-wire loop-powered with IS hazardous area certification. Routine level measurement up to 25meters.
- Local operator interface or remote programming Inert process-wetted materials. for use with corrosive materials.
- Easy configuration with Delta Mobrey's DMCU900 Series Universal Controller



DMSP900SH Transmitter

- Routine level measurement up to 15 meters.
- IP68 version offers protection during flooding.
- Inert process-wetted materials for use with corrosive materials.
- Easy configuration with Delta Mobrey's DMCU900 Series Universal Controller or field communicator.



Vibrating Rod Solids Level Switch

- Reliable point level detection in a variety of dry solid applications.
- Single probe design eliminates clogging and ridging problems associated with forks.
- Hazardous area approved model available.

Temperature



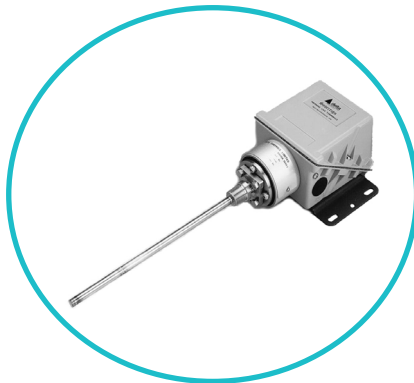
T01 Temperature Switch

- SPDT & DPDT Switch Outputs
- Stainless Steel Aluminium Epoxy Coated Weatherproof Enclosure
- IP66/NEMA4X
- ATEX / IECEx Flameproof & Intrinsically Safe
- 316 Stainless Steel capillary and bulb.
- Field Adjustable set-points against a reference Scale
- Temperature ranges up to 350°C (660°F)
- Maximum Working Temperature up to 360°C (680°F)
- Safety vented design as standard



GR7 Temperature Switch

- Compact and rugged design.
- Weatherproof IP66/NEMA 4.
- ATEX Flameproof CENELEC Ex d IIC option.
- ATEX Intrinsically Safe ATEX Ex ia IIC option.
- Stainless steel body option NEMA 4X rating.
- Optional weatherproof, ATEX Ex e, ATEX Ex ia or ATEX.
- Flameproof Ex d IIC terminal enclosures.
- 316 Stainless steel capillary and bulb.



S71 Temperature Switch

- Weatherproof and Flameproof models ATEX and NEC 500
- 316 stainless steel capillary and bulb.
- Ranges available up to 160 to 260°C (320 to 500°F).
- Maximum working temperature up to 270°C (518°F).



DPT-2000 Temperature Transmitter

- High accuracy $\pm 0.075\%$.
- 4-20mA analogue with digital communications.
- Fully HART ® compatible.
- Programmable range, zero shift, characteristic and damping.
- ratio with local panel keys.
- ATEX certified (Intrinsic Safety, Flameproof).

Pressure



2HT Pressure Transmitter

- High Accuracy $\pm 0.10\%$.
- Ranges from 1 bar to 1000 bar.
- 20 : 1 turndown.
- 4-20mA analogue with digital communications.
- Fully HART ® compatible.
- Rugged 316 stainless steel investment cast enclosure.
- NEMA 4X, IP66 Environmental Rating.



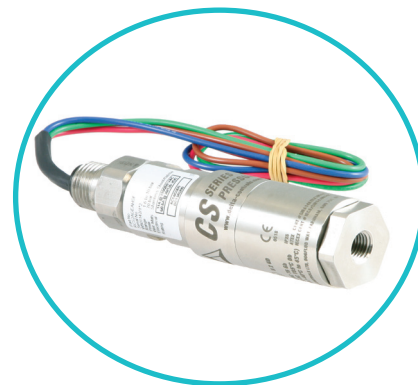
Bellows Operated Pressure Switch

- Precision stainless steel mechanism for arduous atmospheres and high humidity.
- Set point adjustable over whole range against calibrated scale with tamperproof adjuster.
- Weatherproof and Flameproof models ATEX and IECEx.
- Safety vented or blow out device as standard.
- NACE MR-01-75 compatibility.
- Hermetically sealed microswitch option.



387 Pressure Transmitter

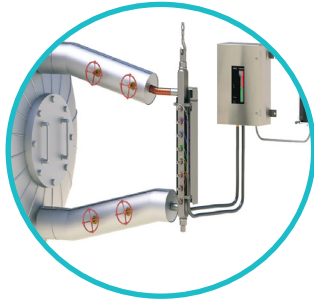
- High Accuracy $\pm 0.15\%$.
- Ranges from 1 bar to 1000 bar.
- 4 : 1 turndown.
- 4-20mA analogue with digital communications.
- 316 stainless steel investment cast enclosure.
- NEMA 4X, IP66 weatherproof rating.
- Stainless Steel, Monel and Hastelloy "Wetted Parts" options.



CS2/4 Pressure Switch

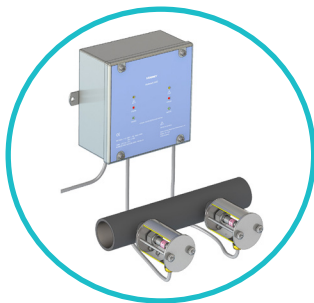
- Compact and rugged design.
- Stainless steel weatherproof enclosure IP66 / NEMA 4X.
- Hermetically sealed SPDT or DPDT microswitch.
- ATEX / IECEx Flameproof Ex d.
- ATEX / IECEx Intrinsically Safe Ex ia.
- High over-range models up to 1000 bar / 15,000 psi.
- Ranges available between 0.25 - 700 bar (4 - 10,000 psi).

Steam



Hydrastep electronic gauging system

- Continuous fail-safe monitoring with exceptional reliability.
- Fault tolerant - no single fault will cause system failure or loss of monitoring.
- Fault indication on all displays.
- Minimal maintenance: fit and forget.
- Wide, accurate measuring range.
- Local and remote displays.
- Peace of mind knowing the system is installed and proven in over 6000 critical applications globally.
- May be used as part of an ASME compliant system.



Hydratect steam/water detection system

- Detect the unwanted presence of water or steam in lines, columns, and condensate pots.
- Commonly used on steam drums, drain pots, or for steam Turbine Water Induction Protection (TWIP).
- For use as part of an ASME TDP-1-2013 compliant system.
- Electrodes for use up to 1040 °F (560 °C) and 4350 PSI (300 bar).
- Patented design, phase detection and triple redundancy for ultimate reliability.
- Relay outputs in varying options, for status and fault alarms

Feedback

We are always pleased to know how our customers feel about our products. Below are just a few of the comments we have received about our range.

What do our customers say about our Oil & Gas range?

“We replaced our older system with two Hydratsep systems for each of our steam drums. Ever since we’ve not had any leaks, trips or false boiler shutdowns”.

“We’re so pleased with the float switches, they have worked for many years and haven’t faltered since they were installed”.

“The performance of the DMSP900SH Transmitter has exceeded our expectations”.

“Your 378 Transmitter has been invaluable”.

“Thanks very much for the VLS Switches you’ve provided, the units are now online and doing their job”.



Approvals

These are the current approvals for our Oil & Gas products, understanding what your needs are is very important to us. As a global company we need to attain global recognition and approvals of our products, so that you are certain they are right for your business.

We continue to monitor and work with industry bodies to understand what we need to attain to work on differing areas of the world.



ATEX Certification - Equipment and protective systems intended for use in potentially explosive atmosphere.



CSA Certification - a hazardous area product approval for US and Canadian locations.



FM Approval - Approved for boiler water-level control.



IECEX Certification - used in hazardous areas to address the risk of fires or explosions from flammable gasses or dust.

SIL

SIL - a tool to measure the amount of risk reduction provided by a Safety Instrumented Function.

Did you know?

- Delta Mobrey has been at the heart of development in North Sea Oil since the 1960s and we have been innovating ever since.
- The probability of Hydrastep missing a trip condition is less than 1 in 300 million and that nuisance trips will be less than 1 in 10 million.



● - new oil field projects



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Delta Mobrey has a worldwide network of trained and fully supported representatives in over 50 countries.

For more information...

Delta Mobrey Ltd. has a global network of global offices and authorised partners. For more information, or for technical or support queries, please contact your regional Delta Mobrey office, or visit our website.



www.delta-mobrey.com