



delta-mobrey

Products Overview



Your trusted partner in process instrumentation

Process monitoring, alarm and shutdown applications

World class technical solutions - proven technology - meeting international standards

Switch Instruments

Reputation for Excellence

Delta Mobrey is a leader in the design and manufacture of robust, reliable and competitively priced switch instruments - internationally approved for use in hazardous areas or safety systems for process control, safety alarm and shutdown applications.



An extensive range of certifications are available to various

- International
- European
- North American
- Russian (CU TR)

with **Explosion Proof or Intrinsically Safe protection mode**. We offer products independently Certified for **SIL 2** and **SIL 3** Safety Circuits.

Our switch instruments are ideally suited to a broad range of applications including:

Rotating machinery, pumping sets, fire protection systems, safety shutdown systems, valve actuation, boiler systems, wellhead panels, HVAC, nuclear safety applications, hydraulic control systems...

Utilising innovative design principles with highly reliable sensing elements such as Diaphragms, Pistons, Bellows, Bourdon Tubes and high quality engineering, over one million different temperature, pressure, differential pressure and flow switches have been supplied to customers worldwide.

Reliable - Dependable

Customers can depend upon the technical expertise and applications knowledge of Delta engineers to understand their requirement and recommend cost effective, practical switching solutions.

Based on Delta's proven technology, our switch products can operate within high and low end physical applications, and are designed to satisfy various site classifications and all significant industry approvals.

Delta Mobrey has built a specialist reputation for providing fully documented, customised switches for complex applications in hostile and demanding environments.





Electronic Transmitters

Delta Mobrey offers a full range of analogue or SMART HART digital transmitters featuring **ATEX**, **IECEx** and **SIL 2** Certified with a full range of accessories available including manifolds and chemical/diaphragm seals. Our instruments are regularly specified by operators world wide because of their compact size, rugged design and high standard specification.

Delta Control's range of pressure transmitters includes **absolute, differential and gauge designs, with analogue or digital outputs**. High pressure up to 1000bar for gauge pressure and best in class accuracy means Delta can satisfy even the most demanding pressure applications over a wide temperature range. These can include static/one side pressure for the Differential pressure transmitters up to 420bar.



Pressure and Differential
Pressure Transmitters



387 Analogue Transmitter ▶



2HT 'HART' Transmitter ▶





Temperature Measurement **Solutions**

Delta Mobrey offer a comprehensive range of quality assured temperature measurement devices that meet the highest recognised standards EN 60751, ANSI MC 96.1/EN 60584-2 across many industries including oil and gas, storage systems, nuclear power generation, food and pharmaceutical. Every product is designed and manufactured to offer a combination of maximum performance and minimal maintenance.

Rugged, reliable and accurate, our temperature range includes:

- Temperature switches
- Analogue and digital transmitters
- Gauges and local electronic indicators
- Thermocouples
- RTDs
- Flanged/Threaded thermowells, thermopockets, protection tubes, etc

Tailored solutions

Using its extensive in-house design and engineering facilities, Delta Mobrey temperature experts can customise standard products swiftly to meet individual technical requirements.





Flow Measurement

Vortex Shedding - Accurate - Reliable

The Delta Mobrey range of vortex shedding flow transmitters feature compact designs with no moving parts, offering high accuracy with exceptional reliability and repeatability. Delta's flow transmitters offer a compact, high accuracy and cost effective flow measurement solution.

In the Automotive industry, Delta's flow transmitters are specified for engine test bed facilities by engine manufacturers and lubricating oil developers. More accurate than traditional measuring methods such as rotameters, Delta's flow transmitters offer a compact, high accuracy and cost effective solution.

The Delta flow meter has also been EMPHASIS approved (the nuclear industry SMART Device Approval) and is available for all HVAC and gas flow applications.



Orifice Flanges

The calibrated orifice flange is one of the most simple and economic methods for the flow measurement of liquids or gases. Delta can supply a wide range of different types of primary elements, from the basic simple orifice plate to the complete measuring system. With our D-SERIES digital SMART Hart differential pressure, pressure and temperature transmitters, having a base accuracy of 0.075%, we can provide an accurate and complete compensated gas flow measurement system.

Meter Run

- Meter Run manufactured according to AGA-ASME, UNI, DIN, BS
- Standard material 316 Stainless Steel, however exotic materials available (Monel, Hastelloy, etc)
- Flow calculation sheet supplied as standard
- Wide range of applications at medium and high pressures and temperatures

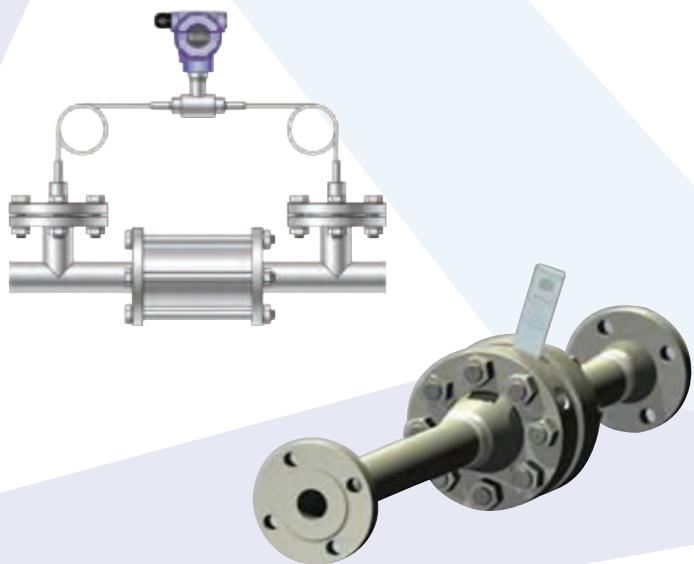


Venturi Tubes

- Used when low pressure drops are required
- Manufactured in sizes from 2" to 48" according to A.S.M.E. and ISA

Pitot tubes for very low pressure applications

- Manufactured according to AGA-ASME
- Various material available, from the standard material 316 Stainless Steel to meet high temperature requirements on flue gas



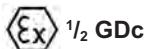


Instrument Gauges

Utilising our considerable experience of providing high quality instrumentation solutions to the worldwide process industry, Delta Mobrey offers a comprehensive range of instrument gauges.

These gauges are produced to the usual high specification and quality that process plant operators, engineering contractors and OEM customers demand and expect from Delta Mobrey.

We produce a wide range of all stainless steel local indicators for Safe or Hazardous areas as well as associated accessories.



- Full compatibility to NACE standards
- Bourdon tube gauges Open or Solid Front for medium and High pressures up to 1000bar as standard
- Capsule and Diaphragm types for low and medium pressure
- Differential pressure gauges
- Bimetal and Gas expansion temperature gauges up to 600 degrees Celsius as standard
- All thermowells can be manufactured using ASME PTC 19.3 stress calculation in an extensive range of exotic materials
- Chemical/ Diaphragm seals for chemical, pharmaceutical, oil & gas, petrochem and food industry applications
- A full range of accessories are available - electric contacts, over-range protectors, snubbers, pigtail siphons, thermowells





Products for Nuclear Applications

Delta Mobrey has been designing and manufacturing instrumentation for the power and process industries since 1950 and has served the nuclear industry in the UK since the first commercial reactors in the 60's, as well as internationally for over 45 years. A specialist in pressure, temperature and flow sensors, Delta has provided a range of generic and bespoke instruments to the industry across all the UK Nuclear Power Plant (NPP) and a number of International NPP in a wide variety of applications.

Available products include Class 1E switches, meeting both IEEE and RCC-E requirements for Nuclear Island use as well as a complete range for Conventional Island and Balance of Plant applications. Delta Mobrey also has the HAF604 approval from the Chinese NNSA for products for the Nuclear Island.

Delta's range consists of:

• Pressure Instruments

- Transmitters and Switches
- Absolute, Gauge, Differential

• Temperature Instruments

- Switches, Transmitters, RTD's

• Flow Instruments

- Transmitters - Insertion/In-Line, Switches



In addition, Delta offers its nuclear customers:

- Excellent performance, reliability and an accuracy that is class leading
- A bespoke service to solve problems and find solutions to technical challenges
- Alternative products for obsolete instruments replacing aged competitor units no longer supported
- Life Extension or Safety Case projects to ensure reactor safety monitoring systems perform to latest requirements

Solutions to Special Applications, examples of which include:

- Fast response Leak Detection within the containment area (HELB)
- Fast Response air temperature switches
- Flow rate monitoring
- High Static pressure - low set point - high pressure reversal applications
- Low pressure and low deadband differential pressure switches
- Self Cleaning low Dead Band high accuracy switch for main feed water cooling system



About Delta Mobrey

Delta Mobrey has built a global reputation for its expertise in the design and manufacture of reliable, high quality and economical instrumentation for the oil, gas, power and process industries. Delta offers both customised and standard solutions for process monitoring, alarm and shutdown applications, backed by local support from a worldwide network of own offices and carefully selected, professional and fully trained representatives.

Quality is a cornerstone of the company's success. This is recognised by industry and our international approvals that cover every aspect of Delta Mobrey manufacturing, test and product portfolio.

Service and Support

Delta Mobrey is totally committed to delivering the best possible customer service and technical support reducing the lifetime cost of ownership while providing long term security - for one-off bespoke solutions through to large volume, more standard requirements but all requiring exacting performance and reliability.

To add value for each customer, a flexible responsive approach to meeting individual instrumentation requirements has been put in place. Delta Mobrey support infrastructure includes:

- Technical advice
- Spare parts
- Re-calibration
- Tailored accessory packages
- Installation support
- Operations and maintenance assistance
- Comprehensive documentation
- Extended warranty support
- Local technical support

Special Engineering - Bespoke Solutions - Problem Solving

In addition to offering over 1 million product variants, Delta Mobrey can also provide custom engineered solutions to meet your exact requirements. The complexity of special engineering can vary from a simple change in process connection to a completely redesigned product to meet specific operational or performance criteria.



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