



Instrumentation for Civil Nuclear Applications

Reliability for Civil Nuclear Energy



For more than 60 years, Delta Mobrey has supported the nuclear industry with reliable process instrumentation designed for demanding operational environments. Our pressure, differential pressure, temperature and flow instrumentation helps operators maintain safe, efficient and dependable plant performance throughout the nuclear lifecycle.

Our solutions have been supplied to reactors, fuel processing and reprocessing facilities, decommissioning projects and supporting infrastructure across the world. From the UK's first commercial nuclear power station at Calder Hall to modern reactor programmes, Delta Mobrey has built a reputation for delivering robust instrumentation where reliability is essential.

Today, our products continue to support critical monitoring, alarm and process control applications throughout the nuclear sector, helping operators maintain operational performance whilst meeting stringent safety requirements.

Delta Mobrey products have been supplied to all reactor types within the UK nuclear fleet, including Magnox, AGR (Advanced Gas-cooled Reactor), PWR and PFR facilities, as well as numerous international reactor programmes.

With experience across both established and emerging nuclear technologies, Delta Mobrey remains committed to providing dependable instrumentation solutions designed to support safe, efficient and long-term plant operation.

Supporting Your Projects

With decades of experience supporting nuclear applications worldwide, Delta Mobrey works closely with customers to provide both **nuclear qualified** and **bespoke** instrumentation solutions tailored to specific project requirements.

From initial specification and product selection through to testing, delivery and long-term operational support, our engineering teams help customers implement reliable instrumentation solutions for demanding nuclear environments.

Whether supporting existing facilities, plant upgrades or new nuclear programmes, Delta Mobrey combines proven products with practical engineering expertise to help meet the challenges of modern nuclear projects.

Our Nuclear Qualified Instrumentation

Pressure Switches

Reliable pressure monitoring is essential throughout nuclear facilities, supporting process control, plant protection, utility systems and safety-related applications.

Our pressure switches are qualified to IEEE Class 1E (mild environments) and RCC-E K3AD requirements, providing dependable operation within demanding environments where long-term reliability is critical.

Why Choose Delta Mobrey Pressure Solutions

- ▶ High repeatability and accuracy
- ▶ Hermetic microswitch options
- ▶ Seismic and radiation-qualified configurations available
- ▶ Wide operating pressure ranges
- ▶ Designed for long service life
- ▶ UK manufactured

200 Series - Pressure Switch

- ▶ Precision stainless steel mechanism for arduous atmospheres and high humidity
- ▶ Models for fixed and adjustable switching differential
- ▶ Precise and accurate operation guaranteed by use of hydraulic formed bellows or capsule stack

S20 Series - Pressure Switch

- ▶ Field set point adjustment against a reference scale
- ▶ Weatherproof and Flameproof models ATEX and NEC 500 certified

Differential Pressure Solutions

Monitoring flow, filtration and process performance often relies upon accurate differential pressure measurement.

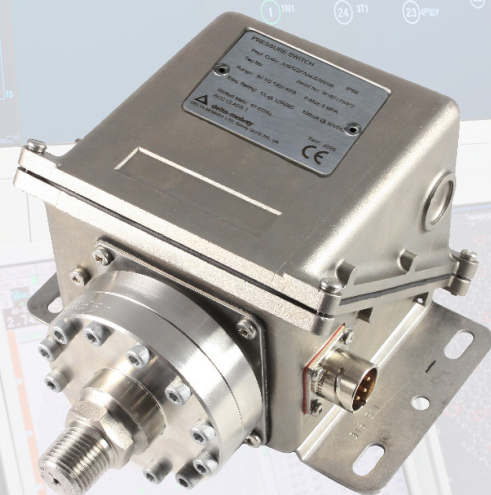
Qualified IEEE Class 1E (mild environments) and RCC-E K3AD differential pressure switches deliver accurate and repeatable performance in critical monitoring and protection applications throughout nuclear facilities.

Why Our Differential Pressure Solutions

- ▶ High accuracy and repeatability
- ▶ Radiation-resistant material options
- ▶ Hermetic microswitch configurations available
- ▶ Suitable for demanding process environments
- ▶ UK manufactured

301 Differential Pressure Switch

- ▶ Static pressure up to 110 bar (1600 psi)
- ▶ Precision stainless steel mechanism for arduous atmospheres and high humidity
- ▶ Set point adjustable over whole range against calibrated scale with tamperproof adjustment
- ▶ Models for fixed switching differential
- ▶ Available in models 303, 304 and 381



201 Pressure Switch



301 Differential Pressure Switch

Temperature Solutions

Temperature Switches

Temperature monitoring plays a vital role throughout nuclear facilities, supporting plant protection, environmental monitoring and process control applications.

Available in IEEE Class 1E (mild environments) and RCC-E K3AD configurations, our temperature switches support dependable operation in demanding nuclear environments where accurate temperature monitoring is essential.

Why Delta Mobrey Temperature Solutions

- ▶ Wide temperature operating ranges
- ▶ Hermetic microswitch options
- ▶ Radiation-resistant material options
- ▶ Suitable for challenging operating environments
- ▶ Designed for long service life
- ▶ UK manufactured

700 Series - Temperature Switch

- ▶ Remote thermal system suitable for harsh environments
- ▶ Set points from -50°C to 550°C
- ▶ Precision stainless steel mechanism

Nuclear Bespoke Solutions

720 Series - Bespoke Solutions

- ▶ Designed for rapid ambient temperature detection
- ▶ Fast response characteristics
- ▶ Developed for demanding nuclear applications



Nuclear Bespoke Flow Monitoring

Flow monitoring supports process efficiency, operational performance and personnel safety across a wide range of nuclear applications.

Delta Mobrey flow solutions have been developed to provide dependable operation in environments where accurate flow monitoring is essential.

Why Our Flow Solutions

- ▶ Proven airflow monitoring performance
- ▶ Suitable for demanding operating environments
- ▶ Reliable switching and monitoring
- ▶ Designed for safety-critical applications
- ▶ UK manufactured

588 Series – Flow Transmitter and Switch

- ▶ Developed as a bespoke solution for nuclear customers
- ▶ Designed for critical airflow monitoring and alarm applications
- ▶ Supports personnel and plant safety systems
- ▶ Flow rates from 0.8 m/s to 38.5 m/s



Nuclear Bespoke Ultrasonic Level Monitoring

Multi-Level Ultrasonic Sensor

- ▶ Designed for water and sludge level monitoring in nuclear applications
- ▶ Provides multiple sensing points for enhanced level detection
- ▶ Supports fail-safe alarm functionality for critical process monitoring
- ▶ Developed to meet demanding nuclear application requirements



Supporting Your Nuclear Projects

From initial specification through to long-term operation, nuclear projects require dependable instrumentation, technical expertise and ongoing support. Delta Mobrey works closely with customers to help identify appropriate solutions and provide engineering support throughout the project lifecycle.

Application Engineering Expertise

Our engineering teams work with customers to understand application requirements, operating conditions and project objectives.

Drawing on extensive experience across nuclear and industrial sectors, we provide guidance on product selection, specification and implementation to help ensure reliable long-term performance.

Long-Term Support

Nuclear projects often require support throughout extended operational lifecycles.

Delta Mobrey provides ongoing technical assistance, product support and application expertise to help customers maintain installed instrumentation and support future plant requirements.

UK Design & Manufacturing

Our products are designed and manufactured in the UK, providing customers with direct access to engineering expertise, responsive support and consistent product quality. Our in-house capabilities allow us to support both standard and project-specific requirements across a wide range of nuclear applications.

Testing & Qualification

Nuclear applications can present demanding operating conditions, including vibration, thermal cycling, seismic events, radiation exposure and accident scenarios.

To support these requirements, selected Delta Mobrey products have undergone qualification programmes aligned with recognised nuclear industry standards, including IEEE Class 1E (mild environments) and RCC-E.

Documentation & Traceability

Nuclear projects often require detailed documentation, inspection records and traceability.

Our teams can support customer requirements through established manufacturing, testing and quality processes.

Nuclear Standards:

RCC-E
IEEE Class 1E (mild environments)

Approvals from Body & Customer Certificates

HAF 604 (China) Design
HAF 604 (China) Manufacture
KHNP Certificate



Nuclear facilities operate under the highest demands for safety, precision and performance. Delta Mobrey instrumentation supports critical applications throughout the nuclear lifecycle, helping operators monitor and control pressure, differential pressure, temperature and flow in demanding operating environments.

With more than 60 years of nuclear experience and installations supporting reactors and nuclear facilities worldwide, Delta Mobrey provides proven instrumentation solutions supporting reactor operation, utility systems, process monitoring, fuel processing and decommissioning activities across the global nuclear sector.

Trusted Quality. Reliable Dependence

Quality and reliability have always formed the cornerstone of our success, we are recognised by industry with international approvals covering every aspect of our manufacturing, test and product portfolio.

Relevant nuclear standards and qualification requirements include: IEEE Class 1E (mild environments) and RCC-E K3AD configurations.

Proven Value

Performance and long-term reliability are why customers continue to place their trust in Delta Mobrey and our products. With sustained investment in established engineering and manufacturing expertise, we deliver robust, high-value solutions designed for long service life and dependable operation.

Bespoke Solutions

We're proud to be able to provide custom engineered solutions to meet your exact requirements.

The complexity of special engineering can vary from a simple change in process connection, or to a completely redesigned product to meet specific operational /performance criteria; available as one-offs through to large volume requirements.

Global Presence

To ensure our customers have immediate and continuous access to our staff and support, we have several strategically placed offices around the globe. For more information, please visit the Contact Us page on our website - www.delta-mobrey.com



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