

Metering

Specialist metering support for the Oil, Gas & Energy Industry



The power behind **your mission**



Dedicated design engineers and project management teams work in partnership to provide fit for purpose solutions



Johnson Controls has a proven performance history in providing specialist metering support for a wide variety of projects on behalf of clients. Our track record and experience enables us to develop measurement solutions that accurately meet the demanding requirements of most process applications.

Where we work • Offshore Installations • Petrochemical Plants • Marine • Chemical Plants • Military Vessels • Industrial Military Sites • Power Plants • Industrial Complexes • Renewable Energy Sites

The need for cost effective maintenance and operation of flow metering systems, in keeping with reduction in all operations of oil and gas production in the North Sea has long been recognised.

Working in partnership with engineering contractors, we have designed some of the most cost effective and innovative flow measurement systems in operation throughout the world. The knowledge of flow measurement systems has proven to reduce costs and uncertainties either at design or operation phase of projects

Metering Consultancy

- Metering system design services
- Liaison with government agencies or pipeline operators on flow measurement issues
- Supply of procedures for commissioning, operation and maintenance of systems and client specification for tenders
- System acceptance tests and reports
- Independent auditing and reports on measurement system performance
- Studies and resolution of flow measurement problems
- Theoretical and practical training

Technical Representation

Consultants offer expert assistance in resolving measurement problems. As a result of an audit or survey a corrective action list details;

- Changes to operations, procedures or equipment installation
- Replacement of equipment with recommended suppliers
- Detailed costing of changes or upgrade

Independent Audits of Metering Systems

Audits cover compliance with transportation and processing agreements, national and international standards on metering, hydrocarbon/secondary allocation, sampling and sample analysis by clients own laboratory as well as by an independent laboratory. Audits are carried out on all aspects of measurement systems;

- Metering field equipment, flow computers and test gear
- Operator and maintenance personnel
- Documentation and procedures
- Calibration records

Total Healthcare of Metering and Sampling Systems

Johnson Controls has a multi-disciplined team of consultants, engineers and technicians offering a comprehensive range of services to our clients in support of measurement systems.

- Offshore operations of metering systems, full time or project managed
- Production reporting and technical liaison with third parties
- Calibration of measurement equipment onshore and offshore
- Spares and equipment management
- Upgrade and improvement, design service for systems
- Technical liaison with third parties
- Dedicated single point of contact

Project Management

Our clients can be confident that when a system is project managed by Johnson Controls then it will be 'Fit for Purpose'

- Site surveys
- Compile basis of design philosophy
- System sizing calculations
- Witness factory acceptance tests
- Represent clients at system upgrade FAT's
- Attend commissioning of client systems for final handover to operations
- Compile 'Fit for Purpose' operation and maintenance manuals
- Highlight training requirements for management and operational personnel

Maintenance Planning and Support

Johnson Controls has their own CMS and SAP specialists providing expertise in areas such as;

- Maintenance programme reviews and strategy development
- Inventory and spares management reviews
- Planning, scheduling, integration and training relating to CMS, SAP and planning systems
- Complete management of planning, scheduling, execution and reporting with full integration to client systems
- Planned maintenance and calibration procedures development and control

Supply of flow measurement equipment

Johnson Controls has long standing partnerships with key suppliers for most flow metering applications. This is complemented by preferred vendor status with the world's leading suppliers of flow meters, secondary instrumentation, associated electronic and mechanical accessories.

Training

Johnson Controls is approved by Scottish Qualification Authority (SQA) to deliver the SVQ Measurement Processes at Level 3. With assessors and verifiers available we can ensure your employees receive the correct training.

Personnel are highly qualified with 26 years of market experience globally which enables them to train engineers and technicians to a high quality. Courses range from 1 to 5 days and are flexible and adaptable to client requirements.



Global Strength

Local Expertise. At your service.

Leverage our capabilities

- Fire Protection
- Fire & Gas Detection
- HVAC
- Audio Communications
- Metering
- Detection & Control
- Fire, Safety & Risk Engineering
- Wellhead Process Control
- Deluge Verification
- De-scaling
- Interface Engineering
- Confined Space Management
- Training
- Fire & Safety Product

United Kingdom locations

Aberdeen, Bridge of Don

Tel: +44 (0)1224 255900

Head Office Manchester

Tel: +44 (0)161 455 4400

For further information or advice
email: tfis.metering.uk@tycoint.com or call: **0800 804 6225**

www.johnsoncontrols.co.uk