



Measurement Services

Delivering Reliable & Comprehensive Measurement Solutions



Proven
Performance
Around the Globe

Flow Computer Projects

We have comprehensive experience of delivering bespoke and complex metering projects and system upgrades, from small installations to larger multi-site turnkey projects. To date, we have supplied engineered solutions to onshore and offshore clients across 20 countries, covering applications for:

- Offshore platforms
- Onshore production fields
- Onshore terminals
- Floating Production Storage and Offloading (FPSO) vessels
- Metering tank farms
- Gas storage and compressor stations
- Tanker loading facilities
- Refineries
- Power plants
- Above ground installations
- Transportation pipelines
- Carbon capture

Whether it is a full design and build project or a system upgrade or mitigation, we offer advice and support across the entire product spectrum. We give you the widest choice of technologies available on the market, backed by unrivalled industry knowledge, expertise and support.

Independent Flow Computer Advice

With extensive experience in flow computer and metering supervisory systems, we have worked with nearly every major technology in the industry. This broad expertise allows us to offer truly independent support and solutions.

While most customers come to us with a preferred technology for their project, we are always happy to provide guidance when needed. We take into account both budget and technical requirements to recommend the most suitable solution.



Having engineered projects using all major flow computer systems, we can confidently advise on the best approach—whether it's an upgrade or a completely new installation.

We are also experienced in the following flow computer and metering technologies:

Flow Computers:

- Daniel: Micro 5000
- Emerson: S600, S600+, FB1200
- EX-I: SFC 3000
- Krohne: Summit 8800
- Omni: 3000, 6000, 7000
- Spirit IT: Flow-X, Flow X/M, Flow X/S, Flow X/C, Flow X/P

Supervisory and PLC Technology:

- ABB eXLerate
- Aveva: PlantSCADA (Citect), Wonderware
- Inductive Automation: Ignition
- Omniflex: Maxiflex
- Rockwell: CompactLogix, ControlLogix, MicroLogix
- Siemens: S7 1200/1500
- Spirit IT: eXLerate

Brownfield Metering Upgrades

We have built an industry-wide reputation as an upgrade specialist. Many of our completed systems worldwide are based on upgrades or refits of older metering computer systems. Upgrading existing systems in online environments can be a real challenge. Over the years we have developed strategies and working practices that have established us as a leader in this field. Customers who have utilised our experience for live changeover projects include Shell, BP, Centrica, Chevron, Harbour Energy, ConocoPhillips, Qatar Energy, Repsol Sinopec and Saudi Aramco. Our largest live cut-over projects include replacement of the LOGGS terminal metering system in the UK for ConocoPhillips, and the upgrade and expansion of the Buzzard Metering System in the UK for CNOOC.

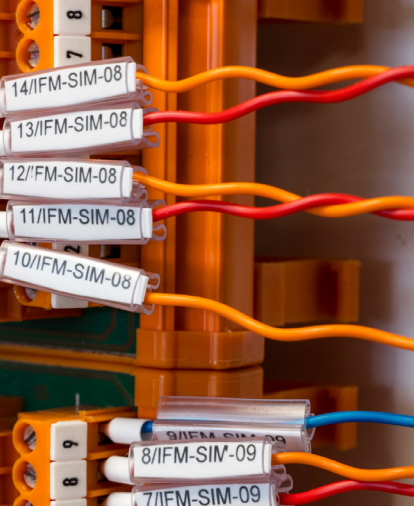
From oil panels in the North Sea, where older panels need to be refitted, to the installation of new panels into the Middle East, we create detailed installation and commissioning strategies that help to minimise system downtime and reduce the risk to on-site operations, whilst still allowing safe operation of the existing system whilst a phased cut-over is performed. We excel at strategic planning and working with our customers to create upgrades and live cut-overs with minimal downtime for their operations.

For years customers have come to us to upgrade systems and then install them in a live environment. Careful planning right from the initial project stages and close collaboration with customers ensure that we produce a solution that allows for a smooth installation and commissioning of the new metering system.

We produce detailed work packs and step-by-step I&C procedures for all of our projects, particularly those requiring work on live systems. This level of documentation gives our customers confidence in the work to be carried out and satisfies the strict requirements that operators have in place for working in control panels outside a shutdown.

Sometimes the answers to retrofitting older fixed in place panels require some innovative thinking. Panel space is a common issue often experienced during system upgrades, and whenever we can, we will look to utilise existing equipment within the panel, where appropriate, or replace it in the most efficient manner possible. Once again, we discuss this with our customers at the earliest possible stage, giving a clear and efficient path to project completion.

Working within sites "permit to work" and adherence to health and safety are as important as a correctly engineered solution, and our engineers undergo constant refresher training to ensure this is the case.



Greenfield Metering Upgrades

As a specialist integrator experienced in the latest flow computing technologies, we are well placed to provide full turnkey project solutions for newly installed metering assets. This can be achieved in the form of individual metering computer systems, or in collaboration with our various partners who specialise in:

- FEED stage consultancy services
- Comprehensive metering skids packages
- Field measurement transmitters and other instrumentation
- Flow meters, including DP meters, turbines, Ultrasonics, Coriolis, etc.
- Gas chromatographs, analyser houses and associated maintenance services
- Site wide control systems
- Civil works

A new project offers us the opportunity to engage with our customers from FEED stage to deliver the most cost effective and up to date solution possible. As an independent integrator we have no preference on the flow computing technology selected, and therefore we are well placed to assist our clients in achieving the best technical solution to suit their specific requirements.

Maintenance Management

Our dedicated service team is here to provide support when you need it most, with support packages tailored around you.

Where only minimal ongoing maintenance is needed, our reactive support packages are the ideal choice. We provide support quickly to help solve any system problem. Where advanced support is beneficial, we provide an enhanced reactive service and more proactive complete care packages.

Typically, our clients choose a combination of reactive and proactive support, which offers both emergency support and regular preventative maintenance to ensure your system continue to perform at its best.

The real piece of mind comes from knowing that if you have a technical issue, all of the commercial details are agreed in advance, which means our team can get to work immediately, saving potential downtime and reducing risk to your operations. Our proactive maintenance packages also include unlimited telephone and email support, and discounts on simulation equipment and training courses.

Dynamic Uncertainty

Dynamic Uncertainty is a software solution designed to calculate live uncertainty associated with oil or gas pipeline instrumentation readings. By delivering real-time insights into measurement accuracy and reliability, it supports operators and engineers in making informed decisions while ensuring compliance with industry regulations.

To find out more about our measurement solutions, scan the QR code for our Interactive Brochure

