

TECHNICA



TECHNICA  
MEASUREMENT

# CAPABILITY OVERVIEW

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[technicaltd.com](http://technicaltd.com) | [technicameasurement.com](http://technicameasurement.com)



# VISION



Multi-discipline engineering design, management and construction, control and functional safety

“Technica believes in long term relationships. We want you to have total trust that we will deliver excellence in our solutions to your engineering problems.”



Fiscal metering and flow measurement operations, maintenance, verification and consultation



**JOHN DAVISON**  
GROUP MANAGING DIRECTOR

## GROUP VALUES

### Commitment

- To our client
- To the business and the team
- Aligning personal efforts with identified goals

### Passion

- Deliver excellence for our clients
- Anticipate, recognise and meet needs

### Excellence

- ‘Good is not enough’ in all aspects of our work

### Innovation

- Continual improvement in our daily work
- Displaying flexibility in handling change

### Honesty

- The ability to admit mistakes and a willingness to learn from them

### Openness

- We discuss issues through the correct channels
- We do not complain behind the scenes

### Self-Awareness

- Self-management and the upholding of high personal standards
- We take responsibility for our personal performance, appearance, speech, punctuality and trustworthiness

### Tolerance

- Of the views of other and alternative perspectives

# WHAT WE DO

We provide a range of services including:

- **Multi-Disciplinary Design**
- **EPC Project Delivery**
- **Construction, Installation and Maintenance Services**
- **Control Panel Build**
- **Modular / Skid Mounted System Build**
- **Software Engineering**
- **Functional Safety**
- **Flow Measurement Services**

“All design work produced by Technica has been of the highest quality and has always met our bespoke requirements”

CLIENT SENIOR PROJECT MANAGER



Technica is an engineering solutions provider delivering major multi-million pound projects internationally. Operating as an independent and highly flexible business for more than two decades, it prides itself on its people and their experience.

Process, mechanical, electrical, control and instrumentation engineers have united from diverse specialisms to serve clients across energy, petrochemical, industrial, maritime and infrastructure briefs.

Evolving to address demands and position itself for further growth, the launch of Technica Measurement has seen a new business unit created to allow its fiscal metering and flow measurement expertise to flourish.

Technica has grown to become a trusted and well respected partner to some of the most recognised names in the UK and international energy sector.



“We enjoy working with Technica because they share our core values of safety and integrity and always provide competent, reliable resources”

CLIENT CHIEF TECHNICAL OFFICER

## MULTI-DISCIPLINE DESIGN

Our in-house electrical and instrumentation teams work closely with our trusted process and mechanical partners to ensure an excellent integrated output.

Whether it is an E&I upgrade to a gas compressor station or a complex design and build of an LPG tanker loading bay, we can ensure all aspects of your project are taken care of.

We have SR25 practitioners and CompEx EX12 certified designers who are experienced in hazardous area classification and the subsequent design of installations in hazardous areas.

Our 3D CAD design enables quicker and more intuitive design reviews and provides a cost-effective method of generating various design deliverables.

- **Feasibility and conceptual studies**
- **Front-end engineering design**
- **Safety studies**
- **Multi-discipline detailed design**
- **Gas network design approval and appraisal**

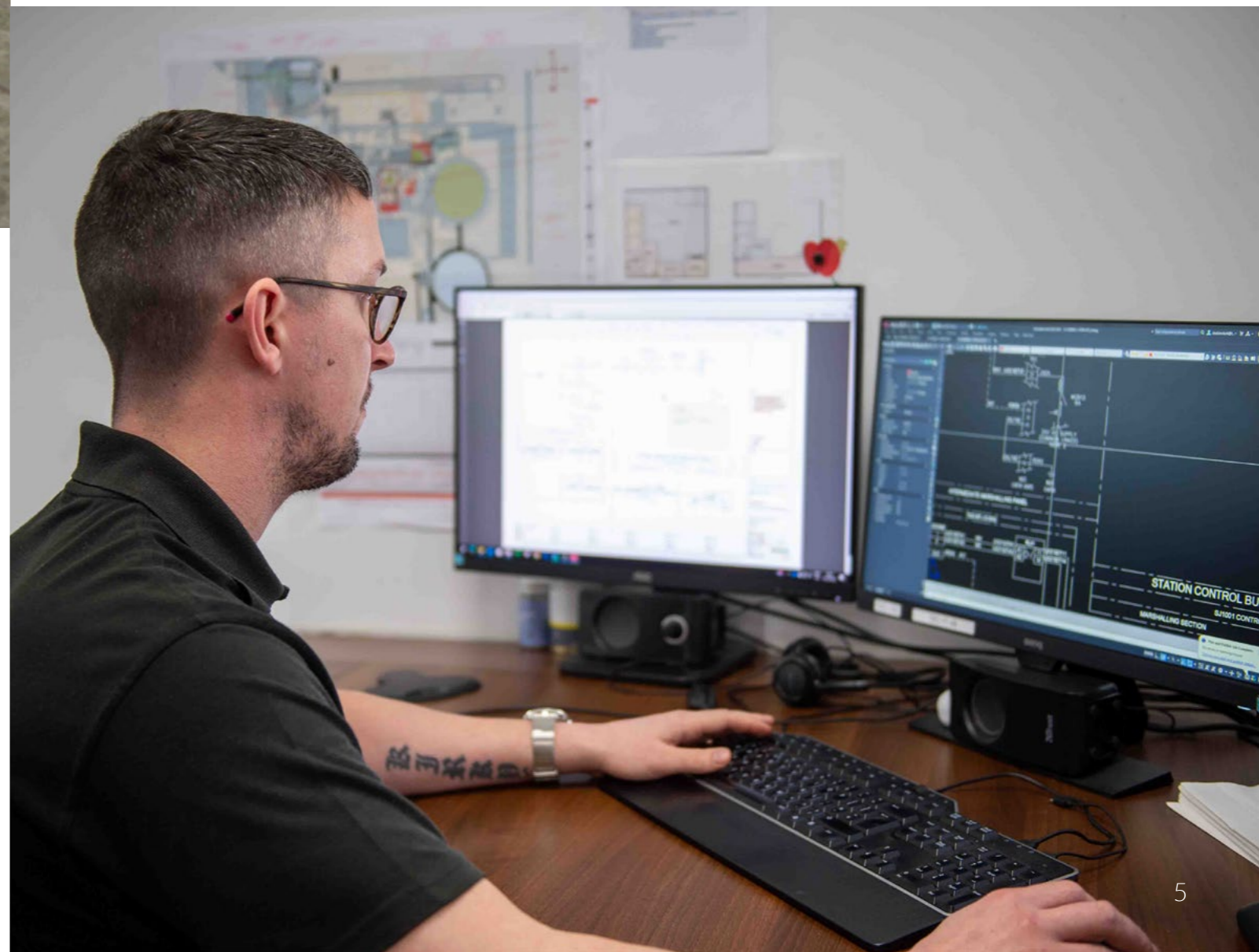
## EPC PROJECT SERVICES

Our project team has completed many engineering, procurement and construction (EPC) and engineering, procurement and construction management (EPCM) projects for our clients.

Internal systems and processes at Technica are designed to let the different disciplines act as a single, highly effective team. This allows our managers and engineers to be as flexible as possible and to react quickly to your needs. Our focus is on giving you an excellent service, delivering your projects when you need them.

Our passion for seeing things through from start to finish means you can relax in the knowledge that we are as invested and engaged as you are in the successful completion. We can also assist through all stages of third-party vendor management.

- **UK gas networks**
- **Gas terminals**
- **LNG/LPG loading and storage**
- **Offshore oil and gas production platforms**
- **International GasPorts™**
- **Chemical facilities**
- **Compressor stations**
- **Biomethane to grid**
- **Hydrogen production and blending**
- **Carbon capture and storage**





## CONTROL PANELS AND MODULAR BUILD

### Control Panels

- PLC / SCADA / DCS
- Emergency shutdown
- Flow metering
- Fire and gas
- Telemetry

### Equipment Rooms

- Instrumentation and Control
- Switchgear
- UPS / Power Distribution

### Analyser Buildings

- GSMR
- Flow Weighted Average CV and other fiscal measurement systems
- Emissions monitoring
- Process control
- Biomethane Grid Entry Units

Technica has a purpose-designed 10,000 sq ft workshop facility within its headquarters, providing the capacity to accommodate the construction and testing of multiple modular equipment rooms and control panels.

This complements our design, software engineering and site installation services, providing a dedicated team to deliver your system, taking responsibility from concept to commissioning and beyond.

Our installation teams take great pride in the quality of our workshop builds.



## CONSTRUCTION SERVICES

We have a close-knit team of electrical and instrumentation technicians, with a great reputation, who all have the experience, competency, certification and health and safety awareness required to complete your project safely and to a high standard. We have successfully completed hazardous area installation projects as both a Contractor and Principal Contractor, as defined by the CDM Regulations.

Typical projects completed by our in-house team of CompEx certified electrical and instrumentation technicians have included the installation and commissioning of:

- Offshore platforms
- UK gas terminals
- Compressor stations
- Pressure reduction stations
- Power stations
- LNG terminals and International GasPorts™
- Natural gas offtakes
- Port facilities

### HAZARDOUS AREA





## SOFTWARE ENGINEERING

- **Emergency Shutdown (ESD) Systems**
- **Fire & Gas (F&G) Systems**
- **Process Control Systems (PCS)**
- **Distributed Control Systems (DCS)**
- **Programmable Logic Controllers (PLC)**
- **Supervisory Control & Data Acquisition (SCADA)**
- **Human Machine Interfaces (HMI)**
- **Data Historians**
- **Network Engineering**
- **Alarm Management**
- **Automation Digital Security & Integrity**

We have delivered major solutions using technologies such as Triconex, Siemens, Rockwell, Wonderware, GE, Det-tronics, Modicon and numerous others. We also offer a number of consultative services, such as; system specification / requirements, technology evaluations, site system evaluations, digital security assessments and alarm management expertise.

Our in-house software engineers are TÜV Rheinland certified Functional Safety Engineers (SIS) and have considerable experience designing safety systems to meet the requirements of IEC-61508/61511.

## FUNCTIONAL SAFETY

- **Depth of experience**
- **Application of both IEC 61508 and IEC 61511**
- **Application of associated machinery standards**
- **Hazard identification**
- **SIL determination**
- **Safety requirement specifications**
- **Functional safety assessments**
- **Proof test procedures**
- **Verification and validation**
- **TÜV Functional Safety Engineers**

Technica has extensive experience of functional safety, the application of both IEC 61508 and IEC 61511 and the associated machinery safety standards.

From hazard identification and SIL determination, Safety Requirement Specifications to verification and validation, if you need assistance with any phase of the functional safety lifecycle, Technica can help.

We have completed projects on many novel applications and systems, and assisted our clients through the all-important Functional Safety Assessments. We use industry-recognised software including ExSILentia for both SIL assessment and verification.

Many of our design engineers have worked on the various aspects of functional safety and, because we understand the importance of proof of competence to meet the standards and your requirements, a number of our engineers, including software engineers, are TÜV Functional Safety Engineer (FSE) certified.





## MANAGEMENT SYSTEMS

- ISO 14001 Accredited
- ISO 45001 Accredited
- ISO 9001 Accredited

Our philosophy and objective is to deliver excellence in all that we do. This effort is underpinned by our externally accredited Management Systems in Quality, Health & Safety and Environment.

This is not just a 'tick box' exercise for Technica, we understand the real value that comes from embracing management systems as genuine business improvement tools. This is why we are completely comfortable in being audited by your quality assurance representatives, should you require it.

## OUR PEOPLE

We employ some of the best people in the industry, with competency, experience and insight independently acclaimed.

Working for us is different to anywhere else and our company is like an extended family. For us, delivering excellence is not just the standard we set for our clients, but it is also the expectation we want our team to have too.

By ensuring that our employees are looked after, that they feel part of something worthwhile and that they are provided with everything they need to allow them to flourish, we are confident in achieving our aim.

Our people are integral to our success. It is our firm belief that happy employees make for happy clients. We always want to hear from people who are as passionate about delivering excellence as we are.

**“Technica constantly shows confidence in me by allowing me to work autonomously to get the job done, all to the high standard the company expects. They are also caring of my needs as a person and not just as an employee, and all within in the company are treated the same whatever appointment they hold. Moving to Technica was a breath of fresh air compared to previous roles such is the working environment within the company.”**

**MARC, ENGINEER, TECHNICA**

**“I enjoy working for the company as the environment allows ideas to be freely shared and the employer hears and sees you making you feel valued. Technica has an excellent reputation in the industry, and this is down to all who work for the company which in turn gives me great satisfaction knowing I am part of that success.**





# EXCELLENCE THROUGH ACCURACY

Technica Measurement has been launched to bring excellence in the specialisms of fiscal metering and flow measurement of liquids and gases to the fore.

Extensive experience has been united in a single business unit to ensure accurate understanding of product volumes in storage, terminals and pipelines, critical for the high value transactions involved in exploration, extraction, transportation and generation.

The team of technicians, engineers and consultants are experts in flow measurement and online analysis. We have extensive experience in designing, building, commissioning and maintaining measurement and analysis systems.



## MAINTAIN AND OPERATE

The foundations of the business unit are based on the provision of measurement maintenance services. We are proud that our people support some of the largest and most respected energy companies within the UK. At any point in time, Technica Measurement personnel are overseeing the equipment required to fiscally measure more than 30 per cent of the natural gas imports into the UK.

We have the capability to fully manage our clients' measurement and analytical systems under our service provision, with Technica Measurement supplying metering engineers, technicians and consultants to undertake all maintenance and quality assurance activities.

Clients can be reassured that their measurement and analytical systems are being managed by our experienced team of measurement professionals.

For clients with biomethane to grid connections or other smaller network entry or exit agreements, our personnel can provide a managed service to undertake ongoing and periodic maintenance of complete plant, including mechanical inspections and ATEX inspections, as well as the ongoing maintenance of metering and analysis equipment.

## CONSULT

Our consultant engineers are experts in the provision of specialist measurement advice, be that in relation to the operation or upgrade of existing equipment, application of measurement standards, writing of policies and procedures or the production of equipment specifications.

We have experience in acting as the owners' engineer in support of measurement projects and have undertaken tasks such as writing or reviewing functional design specifications, production of project scoping documents, witnessing of Factory Acceptance Testing or commissioning activities.

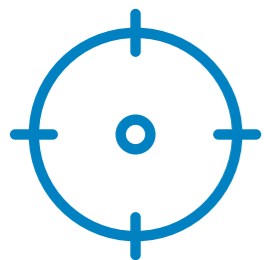
Whatever your consultancy need in this sector, Technica Measurement will be able to meet the requirement.

Through our group parent company, Technica Ltd, we can provide much wider support beyond clients' specific metering requirements, including conceptual design, detailed design, build and installation of a range of equipment from flow computer racks to instrumentation, gas analysis equipment and flow metering skids.

## VERIFY

From auditing to annual verification work, our clients rely on us to verify their metering and measurement systems. We can provide third party measurement audits of fiscal and UKETS measurement systems to ensure they are operating correctly and conform to all applicable regulations and contractual requirements.

Fundamental to the success of our business, our people support our clients following three core values:



### ACCURACY

Highlighting areas of ambiguity and providing mitigation, advice and delivering an impeccable service.



### EXCELLENCE

Being dependable, timely, safe and delivering on our promises. Always striving to be better than yesterday.



### INTEGRITY

Doing the right thing, holding ourselves to account and developing long term trust and relationships with our clients and each other.

**“We are providing a contemporary service delivered with traditional values. We want clients to have total trust that our valued and motivated team will deliver excellence and accuracy in everything we do.”**

**The leadership team has more than 100 years’ combined experience in the provision of engineering and technical support, the vast majority being gained within the fiscal measurement and instrumentation sectors.**

#### Examples of scopes of work delivered:

- Design of measurement and flow computer systems
- Configuration of flow computers
- Flow computer fault finding and diagnostics
- Production of Functional Design Specifications
- Production of metering system uncertainty studies
- Metering design verification
- Independent witnessing of Factory Acceptance Testing and Site Acceptance Testing of measurement systems
- Production of measurement system recertification procedures
- Independent flow meter calibration witnessing
- Measurement system maintenance strategy generation / review
- Production of measurement manual
- Measurement system lifecycle review
- Measurement system commissioning
- Annual metering validation to ME/2 requirements







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## GET IN TOUCH

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