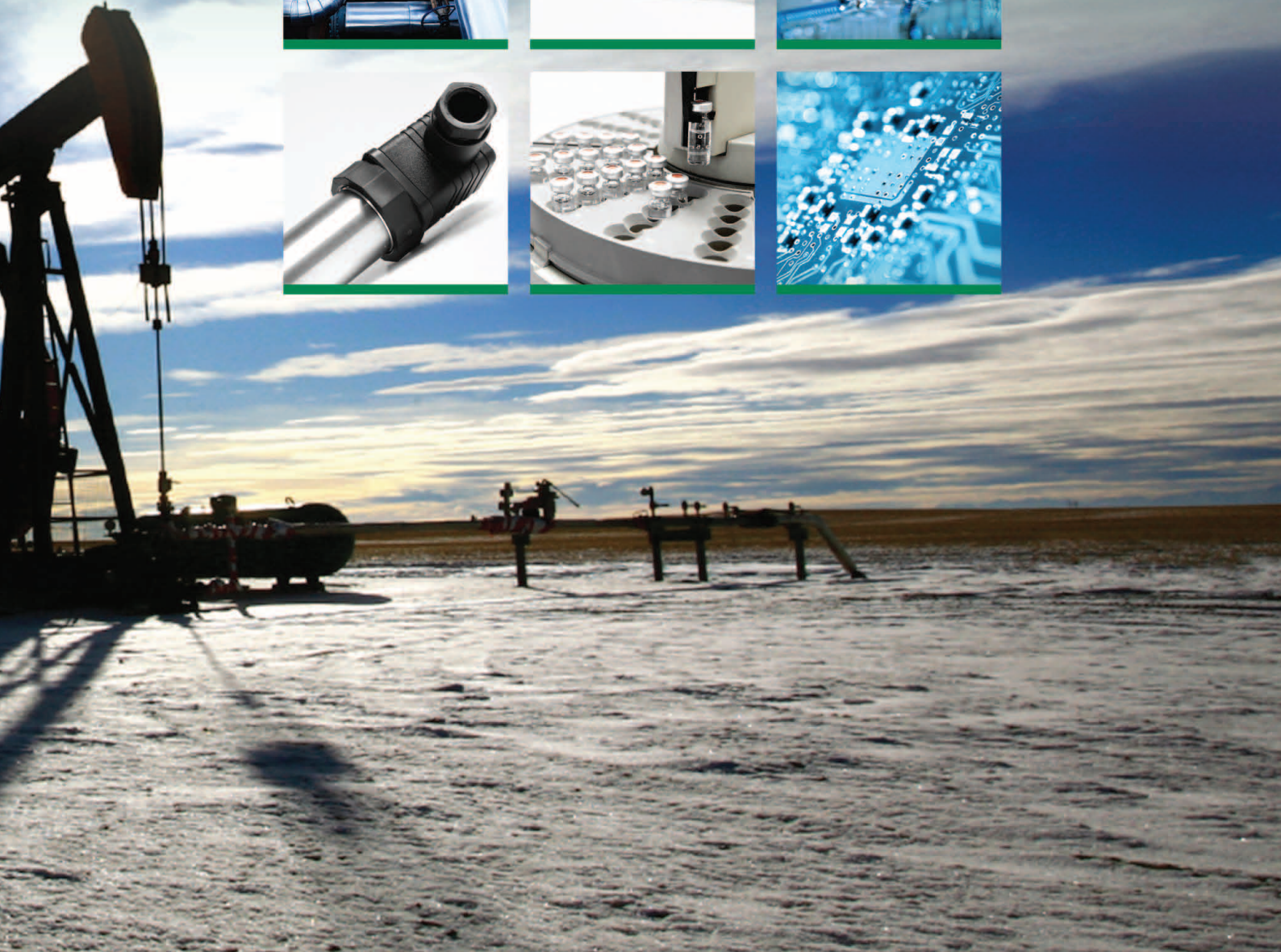
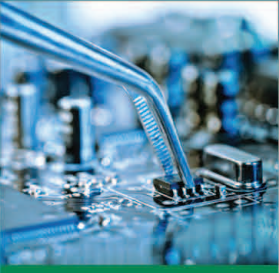


Pressure Transducers and Transmitters



About us

For more than 25 years we have served our customers with consistent product development, engineered solutions and excellent technical and sales support.

Our primary focus is to provide an outstanding service to customers by offering an expansive product portfolio together with a wide scope of additional services.

Our dedicated manufacturing facility based in Wrexham, UK, provides complete control over production, and we have made considerable financial investment in product development to ensure that we are a modern business at the cutting edge of our industry.



Standards

Our customers expect high performance from ESI products. Achieving this requires flawless execution across the entire supply chain. From design and sourcing quality components through to shipment, our quality control and inspection procedures ensure that each and every unit that leaves our premises conforms to the highest standards. We operate to a Quality Management System approved to ISO 9001:2008 and have ATEX approval on a wide range of products. We also conform to aerospace and military standards.



SOS Technology



Silicon-on-Sapphire Sensor (SOS) Technology.....The jewel in our crown.

Silicon-on-Sapphire sensor technology has redefined the performance capability of ESI products.

The outstanding elastic properties of the sapphire substrate provide the perfect platform on which to create a sensor with virtually no hysteresis and superb repeatability.

A silicon strain gauge is epitaxially grown into the structure of the sapphire wafer and then fused to a titanium pressure diaphragm. The excellent insulation properties of the sapphire protect the strain gauge from electro-magnetic pulse radiation, and allow the sensor to operate over a very wide temperature range without loss of performance.

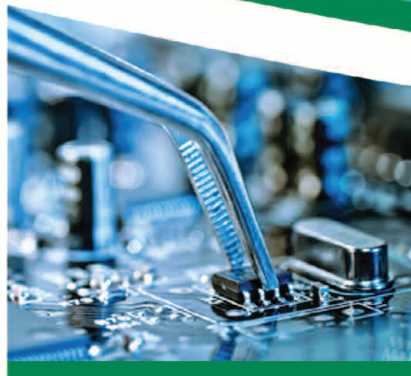
Combined with all titanium wetted parts, this sensor offers unbeatable performance with high over pressures and excellent chemical compatibility.

SOS technology features extensively throughout the ESI portfolio.



Flexibility in Design

Whatever your application, sometimes the solution isn't straight forward. We strive to provide technical advice and design services that achieve results for our customers. Our extensive knowledge and experience is unique, making us ideally placed to provide cost effective, real working solutions to your most critical applications.



Product Conditioning

At ESI we understand the difficulties faced by equipment manufacturers and the requirement to provide products that have been pre-conditioned to suit the working environment. We have developed comprehensive test facilities to enable us to offer Environmental Stress Screening (ESS) and Hyperbaric testing to 4000 metres depth.



Documentation

The provision of documentation to support products is usually beyond the scope of most quality systems, but we have adapted our procedures to offer full and comprehensive document support including certificates of conformity, calibration certificates, material certificates and much more.

Our key Markets...

Pressure measurement plays an important role in many applications.

ESI has become a respected industry leader due to the wide scope and high quality of our product range. Using a variety of state of the art technologies, our pressure transducers and transmitters can measure from a few inches of water up to the 4000bar pressure.

Our early success was founded on designing and manufacturing solutions for exacting aerospace and defence applications, today we serve an extensive range of major industries.

- Aerospace
- Automotive
- Clean Rooms
- Defence
- Depth & Level
- Hydraulic
- OEM
- Oil, Gas & Subsea
- Process & Industrial
- Test Calibration



Customer Service

Our objective is to create close working partnerships with our customers. Our dedicated sales team strive to understand your application by listening to what you tell us and carrying out our own research in order to advise you promptly and accurately on the ideal solution.



Global

Over 75% of our sales are exported, so it is imperative that we have clear communication channels with the rest of the world. The development and extension of our sales network shows a thriving enterprise and we have more than 35 sales partners across 40 countries.



Product Range

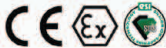
Our wide range of pressure transducers and transmitters incorporate the superior Silicon-on-Sapphire sensor technology to make one of the most advanced ranges available on the market.

Some of our products...



GENSPEC® GS4200 GENERAL PURPOSE PRESSURE TRANSMITTER

- SILICON-ON-SAPPHIRE SENSOR TECHNOLOGY
- PRESSURE RANGES 0-500mbar TO 0-1500bar
- 4-20mA STANDARD OUTPUT
- INTRINSICALLY SAFE OPTION
- ALL TITANIUM WETTED PARTS
- OUTSTANDING PERFORMANCE AND STABILITY
- WIDE OPERATING TEMPERATURE RANGE
- ROBUST CONSTRUCTION



HISPEC® HI2000 HIGH SPECIFICATION PRESSURE TRANSDUCER

- SILICON-ON-SAPPHIRE SENSOR TECHNOLOGY
- PRESSURE RANGES 0-500mbar TO 0-1500bar
- VOLTAGE OUTPUT
- HIGH ACCURACY
- INTRINSICALLY SAFE OPTION
- ALL TITANIUM ALLOY WETTED PARTS
- HIGH TEMP OPTION TO 200°C
- MIL-C-26482 CONNECTOR



GENSPEC® GS4200-USB USB POWERED DIGITAL PRESSURE TRANSDUCER

- SILICON-ON-SAPPHIRE SENSOR TECHNOLOGY
- PRESSURE RANGES 0-2.5bar TO 0-4000bar
- AUTO DETECTION AND CONFIGURATION
- USB 1.1 AND USB 2.0 FULL SPEED COMPATIBLE
- ESI-USB® SOFTWARE SUPPLIED
- MEASURES UP TO 16 INPUTS SIMULTANEOUSLY
- HIGH RESOLUTION
- CERTIFICATE GENERATOR
- HIGH ACCURACY



PROTRAN® PR3200 DIFFERENTIAL PRESSURE TRANSMITTER

- SILICON-ON-SAPPHIRE SENSOR TECHNOLOGY
- PRESSURE RANGES 250mbarDP TO 200barDP
- 4-20mA TWO WIRE OUTPUT
- INTRINSICALLY SAFE OPTION
- WET/WET OPERATION
- UNI AND BI-DIRECTIONAL OPERATION
- ACCURATE AT VERY WIDE DP RANGE
- ROBUST CONSTRUCTION



HIPRES® HP1000/ HP1100 HIGH PRESSURE TRANSDUCER

- SILICON-ON-SAPPHIRE SENSOR TECHNOLOGY
- PRESSURE RANGES 0-400bar TO 0-4000bar
- OUTPUTS AVAILABLE 0-100mV, 0-5Vdc, 0-10Vdc or 4-20mA
- INTRINSICALLY SAFE OPTION
- INDUSTRY STANDARD HIGH PRESSURE FITTING
- ALL TITANIUM WETTED PARTS
- HIGH OPERATING TEMPERATURE
- COST EFFECTIVE



PROTRAN® PR3441 SUBMERSIBLE DEPTH PRESSURE TRANSMITTER

- PIEZORESISTIVE SENSOR TECHNOLOGY
- PRESSURE RANGES FROM 0-1mwg
- 4-20mA TWO WIRE OUTPUT
- INTRINSICALLY SAFE OPTION
- 316L STAINLESS STEEL CONSTRUCTION
- INTEGRAL TRANSIENT VOLTAGE PROTECTION
- HIGH STRENGTH MOULDED POLYURETHANE CABLE WITH VENT TUBE
- HIGH VOLTAGE SURGE PROTECTION AVAILABLE
- UP TO 500M CABLE LENGTH





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