

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.

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

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 no measurable 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.

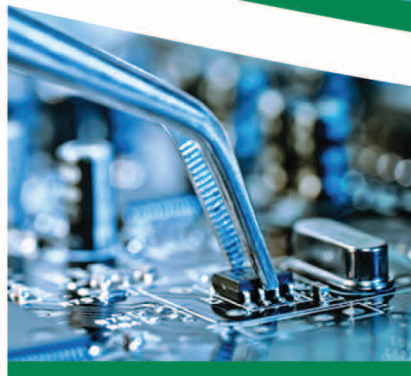
Combined with all titanium wetted parts, this sensor offers unbeatable performance with high over pressures and excellent chemical compatibility.

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 and material certificates for traceability.

Oil & Gas

Pressure measurement plays an important role in the oil & gas industry.

With the necessity to find oil in less accessible places, the systems utilised in exploration become more complex and the use of pressure transducers and transmitters is increasing.

New and more challenging applications require specifically designed solutions to cope with higher static pressures, aggressive processes and environmental conditions. Based on extensive experience in supplying transducers and transmitters for the oil & gas industry, ESI Technology offers field proven solutions.

One of our particular areas of expertise is in deep-water subsea applications where we provide specialist transmitters, often for control valve operation for immersion to 9,000metres with an expected service life of 25 years.

- Subsea
- Drilling
- Down-hole
- Topside
- Offshore
- Exploration
- Wellheads
- Downstream



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 exports, 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 now 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



PROTRAN® PR3900 HAZARDOUS AREA PRESSURE TRANSMITTER

- SILICON-ON-SAPPHIRE SENSOR TECHNOLOGY
- PRESSURE RANGES 0-10bar TO 0-1500bar
- 4-20mA TWO WIRE OUTPUT
- PROTECTION BY INTRINSIC SAFETY TO EEX IA IIC T4
- ATEX CERTIFIED FOR HAZARDOUS AREAS: ZONE 0 GAS GROUP IIC, TEMPERATURE CLASS T4 AND ZONE 20 DUST
- NACE CORROSION RESISTANCE
- ALL WELDED HOUSING



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® PR3913 CONTROL VALVE PRESSURE TRANSMITTER

- SILICON-ON-SAPPHIRE SENSOR TECHNOLOGY
- PRESSURE RANGES FROM 0-200bar TO 0-1000bar
- 4-20mA TWO WIRE OUTPUT
- INTRINSICALLY SAFE OPTION
- HYPERBARIC TEST CERTIFICATE
- SUBMERSION TO 3000mtrs SEA LEVEL
- DUAL SENSOR OPTION



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® PR9000 STANDARD PROCESS/INDUSTRIAL PRESSURE TRANSMITTER

- SILICON-ON-SAPPHIRE SENSOR TECHNOLOGY
- PRESSURE RANGES 100mbar TO 1500bar
- 4-20mA OUTPUT
- INTRINSICALLY SAFE OPTION
- ALL STAINLESS STEEL HOUSING
- WETTED PARTS IN VARIOUS MATERIALS
- FULL RANGE OF BARRIER SEALS AND PROCESS FITTINGS
- HEAVY DUTY





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