

# Instrumentation, Analysis & Testing Exhibition 2019



## EXHIBITOR GUIDE

### A&D Europe, UK Branch

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A&D is a global supplier of measurement, simulation and control solutions for powertrain testing and vehicle development. Our open, flexible and cost-effective tools are designed to fit a variety of applications, from durability, performance, HiL simulation, hybrid/electric vehicle and battery test systems. Our complete range of products includes data acquisition and control systems, combustion analysis and dynamometers, real-time simulation systems and model-based auto-calibration tools.

### AB Dynamics

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AB Dynamics is one of the world's leading specialists in automotive test systems across a wide range of applications including the development of advanced technologies for autonomous driving. Clients include the top 25 global vehicle manufacturers, all seven Euro NCAP laboratories and numerous government test authorities. Their focus on quality, support and test efficiency has made them a long-term trusted partner.

### AcSoft Ltd

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AcSoft is a leading specialist in sound & vibration instrumentation, sensors, data acquisition and software. It has an extensive portfolio of products from manufacturers including gfaitech, Sinus, Microflown, and Crystal Instruments. AcSoft is the parent company of GRAS Sound & Vibration UK, creators of high-quality measurement microphones and associated acoustic equipment for aerospace, automotive, defence and electroacoustic markets.

### Applied Measurements Ltd

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Applied Measurements supply and manufacture standard and custom load cells, pressure, torque, displacement transducers and instrumentation, to all industries from aerospace, geotechnical, medical, materials testing and subsea. From R&D projects to high volume scheduled orders. We are ISO 9001:2015 Quality Management Certified by BSI under certificate number FS 677584 for the design, manufacture and distribution of transducers and measuring systems.

### BMTA

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BMTA is a not-for-profit trade association supporting and representing leading companies in Measurement, Testing, Analysis, Calibration. BMTA strives to deliver the highest level of expertise to the industry. We undertake policy research, engage with politicians, notified bodies and Eurolab to ensure the industry's voice is heard. We facilitate discussion, knowledge transfer and performance improvements through training events and community forums.

### Brüel & Kjaer UK Ltd

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Brüel & Kjaer is a world-leading sound and vibration measurement solutions provider. We help customers measure and manage sound and vibration quality in their products - and the environment. Focus areas are aerospace, space, defence, automotive, ground transportation and audio. Products include sound level meters, microphones, accelerometers, calibrators, noise and vibration analysers, BK Connect software and LDS vibration test systems.

**CaTs<sup>3</sup> Ltd** 51

CaTs<sup>3</sup> is a specialist in design, development and supply of Digital Controllers and Software. The Cube provides a powerful solution to your servo-hydraulic testing needs. Scalable from single to multi-axis testing it is perfect for a wide range of test machines and rigs. Ideal for new systems or modernisations of existing test rigs. Proud to be associated with ZwickRoell.

**CentraTEQ Ltd** 23

As a provider of product integrity test systems, CentraTEQ is an agent for a number of international companies manufacturing a range of systems. These systems include Vibration Test Systems, Shock and Bump Testers, Vibration Controller and Package Test Systems. Working with colleagues in the industry we provide a turnkey solution integrating a number of disciplines into a single combined and complete test system.

**Concorde Publishing Ltd** 52

Founded in 2010, and present at EIS Silverstone since 2011, Concorde Publishing Ltd provides high quality information to our professional and subscriber audience of test, measurement, design & development engineers. Our current range of journals includes Testing & Test Houses, DAQ Sensors & Instrumentation and Test House Directory as well as the websites TestHouseDirectory.com and EnvironmentalEngineering.org.uk

**Data Acquisition & Testing Services Ltd** 19

Data Acquisition & Testing Services provides, test, measurement, instrumentation, analysis and engineering consultancy services. Test engineers are available nationally and outside the UK. Sales and service of the latest digital data collection equipment, with a full calibration facility for instruments and sensors, hire of dataloggers, sensors and cables is also offered. Vibration, and durability testing is available within our laboratory.

**Data Physics UK Ltd** 64

Data Physics have been supplying high performance solutions in signal processing to the noise and vibration community since 1984. With a full line of electrodynamic shakers to complement its vibration controllers and dynamic signal analysers, Data Physics is a total solution supplier for vibration test applications. Data Physics products are "Made in the USA" and "Made in the UK".

**Datron Technology Ltd** 10&11

Datron Technology Ltd are suppliers of automotive test equipment for autonomous, vehicle dynamics and validation applications such as ADAS, coast-down and brake testing. From RTK ground-truth systems, to driving robots, NCAP crash targets, dataloggers, CAN modules and sensors, Datron Technology can offer a solution for almost any type of testing.

**Dewesoft UK Ltd** 31

DEWESoft manufactures a wide range of measurement solutions covering measurement applications across all industries. DEWESoft provides flexible, modular and rugged Data Acquisition systems combined with a versatile turn key software package for Data Recording and Analysis serving applications such as Road Load Data recording, ADAS Testing, E-Mobility, Combustion Analysis, NVH, Power Analysis, Flight Test, Frequency Analysis and many more.

**DWE Scientific Ltd** 36

DWE Scientific Ltd provide marketing and aftersales technical support to our customers and our European and North American Business Partners who design and manufacture Material Testing Equipment. We are the UK Business Partners and aftersales technical support for Epsilon extensometer, walter+bai fatigue test systems, RUMUL resonant test systems, ATS Creep test systems, X-Sight Video extensometers and Ibertest test systems.

**Elstar Elektronik AG** 54

ELSTAR Elektronik AG is a Swiss company formed in 1984 specialising in the field of vibration and mechanical shock testing. Today ELSTAR has grown into a company providing industry worldwide with mechanical shock test machines, vibration measurement systems, expert field measurement services particularly in the area of rotating machinery. ELSTAR is also a supplier of accelerometers, vibration testing equipment.

**Enabling Process Technologies Ltd** 43

Enabling Process Technologies represents Correlated Solutions who are the leaders of Digital Image Correlation (DIC) measurement systems for non-contact, full-field analysis of 3D shape, motion, deformation and strain. Any object can be analysed under any loading condition. Our turn-key systems allow you to start acquiring valuable data immediately with data exported in numerous ways for easy interpretation and FEA validation.

**ETLG Ltd** 27

ETLG Ltd. is the UK representative for a number of US manufacturers, specialising in Motion Measurement, Inertial Navigation, Magnetic Field Sensing, Tilt Monitoring, High Temperature Semiconductors, Pressure Measurement and Synchro Computer Boards. With an emphasis on units for the high performance Automotive, Aerospace, Defence and Industrial markets in the UK, ETLG have the perfect solution to a variety of applications.

**Frazer-Nash Consultancy** 47

Frazer-Nash is a leading systems and engineering technology company. We're renowned for our work in the aerospace, industry, transport, nuclear, marine, defence, and energy sectors. Our test, measurement and inspection capability has been deployed on a wide range of high value assets, including offshore platforms, power stations, rail vehicles and infrastructure, industrial test facilities, submarines, ships and armoured vehicles.

**Gantner Instruments** 63

Gantner Instruments is a global leader in the development of high-precision data acquisition & control systems. Since 1982, the Gantner team has excelled in delivering products and services in the fields of electrical, mechanical and thermal systems, always prioritizing flexibility, usability, and accessibility. Our test automation and performance monitoring solutions can be found in many industries, including Automotive, Aerospace, Civil Engineering, and Energy.

**GOM UK** 59

GOM is a leading innovator in developing optical 3D metrology systems and measurement software. GOM develops, produces and sells software and systems worldwide, for 3D coordinate measuring technology and 3D testing based on the latest research results and innovative technologies. In addition, GOM shares knowledge on processes and measurement technology in training courses, conferences and application-based workshops.

**Granta Design** 33

Granta is the leader in materials information technology – software, resources, and services to apply materials and process information, and enable better, greener, safer products. A subsidiary of ANSYS Inc., Granta helps enterprises to improve global standardization, efficiency, and quality; minimize supply chain risk; and ensure traceable, consistent materials information is provided to engineers and analysts within PLM, CAD, and CAE.

**HBM UK Ltd** 69

Test, measurement and weighing technology specialist, HBM will be demoing its transducers designed for calculating torque, force, pressure, strain, displacement and weight - plus a range of advanced data acquisition (DAQ) systems and associated software. Created for testing stress measurement in structures, machinery and aerospace applications, these tools are ideal for a range of industries including automotive, shipbuilding, agricultural, chemical, pharmaceutical and food production.

## Head Acoustics UK Ltd

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HEAD acoustics has developed hardware and software solutions for measuring and analysing sound events on the basis of aurally-accurate recording and playback systems, which have become today's industry standard. In addition, HEAD acoustics researched and developed numerous internationally-approved measurement tools in other fields of noise and vibration and telecommunication technology.

## IAC Acoustic Company UK Ltd

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IAC Acoustic Company UK Ltd specialise in noise control and bespoke engineered solutions. Our experience in the industry spans over 60 years and our knowledge and passion for providing solutions is second to none. Our anechoic chambers and engine test facilities are designed, installed and commissioned by our highly experienced team ensuring customer satisfaction every time.

## IDT

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IDT manufacture compact and rugged high speed cameras, perfect for both lab and field tests. Short (impact) tests and sustained testing over longer time periods are made possible with the ne X-Stream range of streaming cameras and recorders. Equally compact/ rugged LED lighting compliments the cameras, and analysis software to turn the images into quantifiable data complete the testing system.

## Interface Force Measurements Ltd

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Interface Force Measurements are specialist suppliers of Force, Multi Axis, Torque and Pressure measurement solutions from some of the world's leading sensor manufacturers. Applications we're able to help you with include:

- Fatigue, wind tunnel, chassis and multi axis control stick testing
- Propulsion, engine stand and oxygen system tests
- Static, dynamic and impact pressure mapping

## Institute of Acoustics

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The IOA is the UK's professional body for those working in acoustics, noise and vibration. Formed in 1974 from the amalgamation of the Acoustics Group of the Institute of Physics and the British Acoustical Society, it's a nominated body of the Engineering Council, offering registration at Chartered and Incorporated Engineer levels. It has 3000+ members from a rich diversity of backgrounds.

## IPETRONIK GmbH & Co KG

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IPETRONIK is a globally operating company for mobile measurement technologies, DAQ software, engineering services, and test bench technology for the automotive industry. Most of the OEMs and Tier 1 suppliers trust in the high quality, reliability, and precision of our products and services. Our portfolio offers ultra-precise measurement modules, data loggers, and sensors as well as an efficient configuration and DAQ software.

## Julabo

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Temperature control expert in the automotive and space industries. JULABO provide fast and accurate temperature control that is crucial in the research and development for the automotive industry and aerospace. We offer reliable instruments for various tests under realistic conditions as well as test simulations. To ensure reproducible temperatures, manufacturers and suppliers require premium instruments supporting more than standard applications.

## KDP Electronic Systems Ltd

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KDP Electronic Systems is a privately owned electronic based design and manufacturing company providing solutions to major customers that include aerospace, defence, and automotive. KDP has long been associated with the sound and vibration instrumentation world as designers, manufacturers and suppliers of signal conditioning and bespoke measurement systems. KDP represent in the UK Wilcoxon Sensing Technologies, CTC and Vigor Technologies.

## Kistler Instruments Ltd

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Kistler Instruments Ltd is the global leader in dynamic measurement technology for measuring pressure, force, torque and acceleration. We supply accurate sensors, reliable data acquisition systems, customized services and comprehensive application software for complex measurements.

## LaVisionUK Ltd

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Supply scientific imaging systems to its customers from industry and academia. Application fields include automotive, aerospace or power generation. Material testing benefits from our highly accurate non-contact measurement systems for deformation and strain measurements. Multi-dimensional velocity fields in wind tunnels, particle concentrations and diameters are measured in-situ. LaVision excels in providing on-site customer training and support including contract work.

## m+p International

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m+p international develops and manufactures test and measurement systems for vibration testing, dynamic signal analysis, data acquisition, process monitoring and test stand engineering. Our state-of-the-art products meet the highest demands on quality and reliability and have a significant market share in numerous key industries worldwide – everywhere where maximum efficiency and shortest time to market are crucial.

## MatchID

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MatchID, a Belgian university spin-off, offers solutions in strain measurement, model validation and automated identification of mechanical material properties. Living up to our tagline "Metrology beyond colors", we seek to offer the DIC system of the future, by adopting a module-based, hardware-agnostic structure, where the focus lies primarily on the metrological aspects.

## Mecmesin

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Mecmesin is a leading global designer and manufacturer of force, torque and materials testing solutions for quality control. The focus of the company has always been to provide high quality test solutions, which are an affordable alternative to the many higher-priced systems available, enabling small and large businesses alike to undertake quality control checks on their materials & products without compromising on precision and accuracy.

## Meggitt

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Meggitt is a leading supplier of high-performance sensing and monitoring systems for physical parameter measurements in extreme environments. Meggitt's Endevco® range of piezoelectric, piezoresistive, Isotron® and variable capacitance accelerometers, piezoresistive pressure transducers, acoustic sensors, electronic instruments and calibration systems ensure critical accuracy and reliability within aerospace, automotive testing and medical applications.

## Moog

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Moog is a designer, manufacturer and integrator of high performance, high integrity control systems and equipment (electro-hydraulic and electro-mechanical) satisfying a broad range of applications in aerospace, defence and Industrial markets. Moog is able to offer expertise in varied fields of engineering and has a proven track record in the successful implementation of major multi-disciplinary projects.

## Mueller BBM VAS

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Müller-BBM VibroAkustik Systeme offers high-performance tools for any acoustic and vibration-technological application. In multi-channel measurement technology we rank among the global market leaders.

## Optimax Imaging Inspection & Measurement 62

Independent provider of optical inspection, non-contact metrology and force measurement equipment. Our product range includes video & optical microscopes, non-contact measuring instruments, borescopes and force measurement systems for use in industrial production processes. We specialise in difficult to measure applications and materials testing for industry. Bring your samples to stand 62 for a free no obligation demonstration of the equipment.

## Oxford Technical Solutions Ltd 12

With 20 years' experience GNSS/INS technology, OxTS is helping automotive engineers around the world develop advanced driver assistance systems and self-driving vehicle technology. The highly accurate RT3000 products have become a standard for measuring and analysing vehicle dynamics data and, combined with the RT-Range S, offer a complete solution for validating ADAS sensors to Euro and global NCAP standards.

## PARC - SOPEMEA 48

PARC is a leading UKAS accredited test laboratory offering environmental testing including vibration/shock, high/low temperature, humidity, thermal shock, corrosion, altitude, ingress protection, impact & HALT. New for 2019, is a maintenance and repair service of your climatic chambers and vibration equipment. We conduct testing for various industries including rail, aerospace, automotive, medical, defence, telecommunications, marine, oil/gas, electronics, highways & power generation.

## PCB Piezotronics Ltd 32

PCB Piezotronics, Inc. is a designer, manufacturer, and global supplier of accelerometers, microphones, force, torque, load, strain, and pressure sensors, as well as the pioneer of ICP® technology. This instrumentation is used by design engineers and predictive maintenance professionals worldwide for test, measurement, monitoring, and control requirements in automotive, aerospace, industrial, R&D, military, educational, commercial, OEM applications, and more.

## Peli Products (UK) Ltd 45

Peli waterproof, crushproof cases are designed for instrumentation and electronics that require safe transportation or protection. Instrumentation and monitoring equipment can be built into the cases using panel frames for easy installation of electronic control panels. We offer a full custom foam service, designing and manufacturing bespoke interiors for enhanced protection and organisation for tool kits or delicate, valuable equipment.

## Photo-Sonics International Ltd 29

Photo-Sonics are a leading supplier of instrumentation and telemetry systems and can provide a wide range of solutions to suit the most demanding measurement requirements. Irrespective of your project requirements, we can provide help and advice, gained from 40+ years of experience in a wide range of instrumentation fields.

## Photron Europe Ltd 20

With more than 30 years' experience in the design and manufacture of digital high speed imaging systems for research and industry. Photron has become renowned for the performance, reliability and ease of use of its products, backed up by excellent support in Europe and overseas.

## Polytec Ltd 56

Polytec manufactures a wide range of laser vibrometer, velocimetry and surface topography instruments and have been bringing light into the darkness of non-contact measurement for more than 50 years. If your measurement need is in research, development, production or even for long-term monitoring, there is a Polytec system that will provide a non-contact solution.

## Prosig Ltd 70

Prosig are experts in the monitoring, measurement & analysis of sound & vibration. The company provides turnkey data capture and analysis systems for a wide range of applications with particular focus on NVH, condition monitoring and noise & vibration testing for the automotive, aerospace and power generation industries.

## Racelogic Ltd 16

High-speed GPS data logging, video, inertial, and GPS simulation systems for the automotive industry, Racelogic VBOX equipment allows for test procedure compliance of advanced driver safety systems. We will be revealing our latest products, the VBOX Touch, an Indoor Positioning System which works in the absence of GPS, and a new Inertial system which incorporates wheel speed data.

## RDP Electronics Ltd 18

RDP Electronics is a UK manufacturer, selling transducers and instrumentation measuring displacement, force and pressure. We offer linear and rotary displacement transducers including submersible, high-temperature and radiation-resistant designs. We have custom design capability. We also sell and support Sensotec load and pressure transducers. Many transducers will be displayed. Our stand will be manned by engineers keen to discuss specific requirements.

## Reliability Maintenance Solutions Ltd 39

RMS provides a comprehensive range of reliability / condition monitoring (CM) products, services, support and professional training solutions and certification confirming with ISO18436-2. Technologies include; Vibration, Motion Amplification, Thermography, Oil, Balancing, Laser Alignment, Ultrasonic and Motor Analysis. RMS is a proud distributor and approved training centre for RDI Technologies new technology called Motion Amplification (visualization motion and movement of assets and systems).

## Sensors UK Ltd 37

Established in 1964, Sensors UK Ltd has earned a reputation as a leading distributor and supplier of a broad range of primary sensors, measuring instruments and systems to the manufacturing and process industries.

## Servotest Testing Systems Ltd 3

A UK-based supplier of servo-hydraulic mechanical simulation systems tailored to customer's specific needs in motorsport, automotive, civil structural test and seismic-simulation. Combining low-friction hydrostatic bearing actuators, durable backlash-free Cardan joints and Pulsar digital servo-control delivers high-fidelity motion replication even in demanding high-force and high-velocity test applications. EZFlow test automation and customer-specific Schematic displays support operation by expert or novice users.

## Severn Thermal Solutions Ltd 8

Severn Thermal Solutions Ltd will be exhibiting systems from their latest range of high temperature split furnaces. Rated for actual test temperatures of up to 1200°C these short height systems offer significant advantages over more traditional designs employed in strain controlled low cycle fatigue testing and hot tensile applications.

## Siemens PLM 21 & 22

Enhance testing processes, boost productivity and product innovation with Simcenter Testing Solutions. Integrating multiphysics data acquisition hardware with a complete suite of acquisition, analytics and modelling software to cover a wide range of tests. Delivering critical insights for smart products, increase productivity and efficiency, maintain quality, enhance team collaboration and flexibility, close the loop with simulation and lower the cost of ownership.



## SIKA Instruments 61

SIKA has developed advanced instrumentation at its headquarters in Germany for over 100 years. Founded in 1901 it's still a family owned company, with a focus on quality and longevity. The premium Temperature Calibrators from SIKA will be on show where live temperature sensor calibrations will enable you to witness the world leading stability and speed of these market leading calibrators.

## Strainsense Ltd 24 & 25

Strainsense supply a wide range of Sensors for the measurement of Pressure, Force, Position, Vibration and Strain along with Data Acquisition systems to provide the complete measurement chain. Not only do we provide class leading products, we can supply sensor solutions to fit your application with full technical advice and support offered by skilled engineers. Increasingly we specialise in test rigs and complete test systems.

## Techni Measure Ltd 40

Techni Measure supply an extensive range of sensors, transducers, instrumentation and calibration systems for the measurement of strain, vibration, acceleration/g force, displacement, load, force, torque, pressure, temperature and attitude/orientation. We will be showcasing a wide range of products at Silverstone. Our new sister company Quad I can offer sensor installation and measurement services, or integrate sensors into a measurement system.

## Thermal Vision Research 58

Thermal Vision Research Ltd is one of the UK's leading suppliers and consultants for thermal imaging cameras and thermal imaging systems for use in research, development and Automation. Our thermography solutions include market-leading thermal cameras. As well as advising on the best thermal imaging equipment for your application, we can also provide appropriate software and training.

## THP Systems 7

THP Systems are based in Letchworth in the UK. We provide Test and Measurement products for the Environmental test industry, including Vibration, Climatic and DAQ Products from world leading manufacturers. THP also have a commercially available test house, which supports customers who require one off or a series of environmental tests to be performed.

## Trafag 38

Trafag is a leading international supplier of high quality sensors and monitoring instruments for measuring pressure (pressure transmitters, pressure sensors and pressure switches), temperature (thermostats and temperature transmitters) and SF6 gas density (SF6 gas density monitors and SF6 gas density sensors). A wide range of standardized, configurable products is available. Trafag is also specialized in developing tailored-made solutions for OEM-clients.

## Transmission Dynamics 26

Transmission Dynamics, established in 1996, delivers world leading Internet of Things solutions to complex industrial challenges, by providing Smart Sensor Networks. Our products and services are delivered to blue-chip companies globally from renewable energy, mining, marine, defence, automotive and rail sectors. Our Culture and Environment fosters integrity, courtesy and humour and promotes enthusiasm, innovation, and efficiency.

## VIBES.technology B.V. 15

VIBES.technology is the expert in the modular characterization of sound & vibration for automotive and high-tech industries. Through test-based modeling (FRF measurements on passive components), source characterization (blocked force descriptions for active components) and dynamic substructuring (creating a system from component models) VIBES' engineers improve the reliability, time-efficiency and cost-effectiveness of sound & vibration R&D.

## Vibration Research UK 6

Vibration Research is the innovator in sound and vibration technology. VR offers testing products, software and support that deliver unrivalled value. The VR9500 Controller and ObserVR1000 DAQ/Analyzer, along with VibrationVIEW and ObserVIEW software include patented innovations used by world-wide testing labs and engineers. iDOF®, FDS, FDR, and Kurtosion® are some of VR's applications that ensure accurate and fast vibration testing.

## VPG Micro-Measurements 49

VPG Micro-Measurements supply a wide range of strain gauges and complementary sensors supported by a comprehensive array of installation tools and accessories. We also have instruments from single channel to several thousand, enabling anything from small scale evaluations to full-scale fatigue, wind tunnel and impact test setups. This is all supported by experienced engineers and regular and bespoke training workshops.

## ZwickRoell Ltd 50

ZwickRoell manufactures and supports a wide range of materials testing machines, systems and accessories for use in research, quality control, production environments and academia. We are world leaders in static and dynamic testing systems and our equipment is employed in a wide range of industries including aerospace and automotive.

To register visit [www.e-i-s.org.uk](http://www.e-i-s.org.uk)