

Sensing Technology

Finding the optimum solution to a measurement problem is often not easy. In particular, if the application is high performance or safety critical, or if the environment is hostile or 'difficult' in some way (eg high pressures, temperatures, electromagnetic interference, corrosive chemicals etc) an 'off-the-shelf' standard product may not be applicable.

Conekt specialises in solving measurement and sensing problems where a standard solution is inadequate or the optimum choice is not obvious. Conekt has over 25 years of experience developing sensing systems for a range of industries including automotive, aerospace, defence and oil & gas using a wide range of different sensor technologies.

Conekt supports its clients in selecting the right technology to solve their measurement problems, given the constraints and the trade-offs of the particular application. As Conekt is not linked to any particular technology or manufacturing process, we can offer an independent and unbiased service.

Conekt has used a wide range of sensing technologies to make measurements, such as inductive, capacitive, resistive, piezoelectric, ultrasonic, magnetic, MEMS, etc. Technologies we have found particularly effective are:

- Optical and fibre-optic sensors, as these are often highly applicable to making measurements in hostile environments
- The use of wireless technology to transmit sensor data in automotive, aerospace, and other 'difficult' environments
- Capacitive sensors for touch-panel controls and liquid level detection
- Micro Electro-Mechanical Systems (MEMS / MST)
- Analogue and digital signal processing, especially the use of miniaturised, rugged and very low-power electronics



Projects

Examples of projects we have successfully completed for clients are:

- **Trade studies and technology evaluation**
Helping our customers to understand and define their measurement requirements, then helping them to find, evaluate and deploy the optimum solution for their specific application
- **Concept demonstration and prototyping**
Demonstration of sensing and measurement systems in the client's application to enable rapid evaluation and refinement of specifications
- **Instrumentation for test of prototype and development systems**
Providing measurement systems to help in development, testing and validation of complex electronic and electromechanical systems

Industry Links

Conekt has established links to many other academic, industrial, member and trade associations. These relationships allow Conekt to apply up-to-date knowledge and technologies to the benefit of our clients.

Collaborative projects are also very important to us and we are currently participating in several Technology Strategy Board and EU (FP6 & FP7) funded projects.

For more information on Sensing and Measurement Technology, contact:

Tel: +44 (0) 121 627 4242 or E-mail: conekt-enquiries@trw.com



conekt
powered by **TRW**

TRW Conekt
Technical Centre
Stratford Road
Solihull B90 4GW
United Kingdom

Tel: +44 (0) 121 627 4242
Fax: +44 (0) 121 627 4243
conekt-enquiries@trw.com
www.conekt.co.uk