



Can we boost your business by providing a DSP solution?

Contact John Jenkins

Tel: +44 1656 728103

E-mail: info@tespar.co.uk

Web: www.tespar.co.uk

Why use Tespar dsp for your business?

DSP - *digital signal processing* – has many applications across multiple business sectors. Below are some of the applications of our patented Tespar dsp technology:

- **Industrial.** Condition monitoring & quantitative measurement of compressors, pumps, valves, actuators, steam traps, ore crushing machines.
- **Transportation.** Railway wheel bearings, engine knock detection, helicopter gearbox and rotor monitoring, turbine blade crack detection.
- **Utilities.** Water meter health monitoring, soil compaction analysis, structural integrity.
- **Medical.** EEG and ECG analysis.
- **Security & Defence.** Intruder detection (ultrasonic & geophone), radar and sonar analysis, glass break detection.
- **Telecoms & Voice.** Monitoring mobile network speech quality, SIM card authentication, voice applications on mobile phones, PDAs and toys, physical access control.
- **Petrochemical.** Top-side slug detection, detection of down-hole drill conditions, such as stick-slip and whirl.

What does Tespar dsp offer?

At no cost to you, we can:

- Assess whether Tespar dsp can be applied to your business.
- Undertake collection and analysis of sample data.
- Provide an evaluation of the results demonstrating how you will benefit.
- Supply a stage-gated route-map of the technical and commercial development of your products.

How is Tespar dsp technology applied?

Our patented Tespar dsp technology is based on a time-domain mathematical methodology applicable to virtually any sensor type, and suitable for implementation on a wide range of hardware platforms, including:

- Standard desktop & hand-held Windows PCs
- Embedded PIC, TI DSP and ARM platforms
- Silicon manufacturer's evaluation kits

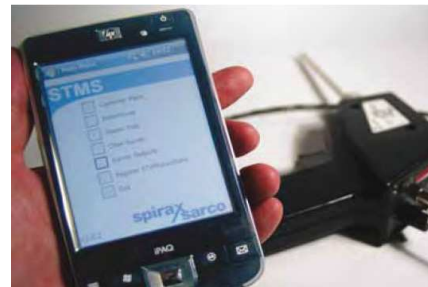
For more details on Tespar dsp, visit:

www.tespar.co.uk

Recent Tespar dsp technology products

Industrial Sector. Spirax Sarco, with an annual turnover of £500m+ and 100,000+ customers in 56 countries, released their hand-held steam trap monitor STAPS (Spirax Total Acoustic Performance Solution). Developed in collaboration with us using Tespar dsp technology, it is used by Spirax Sarco service engineers worldwide to provide unique CO₂-saving feedback to its customers. STAPS provides:

- Fast 15 second in-situ steam trap test.
- Immediate assessment of trap condition.
- Accurate estimation of steam leakage.
- Steam loss to CO₂ emission equivalent for accurate CO₂ and energy saving decisions.
- Results integrated with Spirax Sarco's plant Steam Trap Management System.

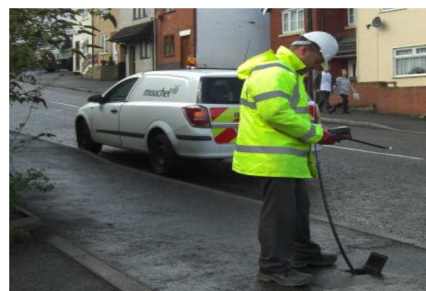


Utilities Sector. Developed in collaboration with WRc and marketed by Mouchel, *Metercheck* is a low cost hand-held tool that provides an immediate, indication of the condition of in-situ water meters. *Metercheck* uses our Tespar dsp technology to identify inaccurate water meters and minimize the historical practice of replacing meters on an age-related basis.

Metercheck has been used by UK & international water companies to identify installation damage of new meters and wear and tear conditions in older meters.

Metercheck performance has been verified using independent, calibrated water meter rigs.

Find out more at: www.metercheck.co.uk



Tespar dsp users include:

