

ULTRASONIC INSPECTION SYSTEM INSTRUMENTATION UP-GRADES



This equipment is for the up-grade of ultrasonic instrumentation and software of any of the systems listed below. See the reverse of this brochure.

Al-Fin insert bond inspection in diesel pistons.

Gas cylinder inspection.

Tube and Bar inspection.

**Any ultrasonic application where our standard
chart recorder software can be used.**



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If you have an ultrasonic system that is using old un-reliable or obsolete ultrasonic instrumentation, it is now possible to up-grade that system to use the latest ultrasonic instrumentation and software.

We are able to offer ultrasonic systems with up to 32 channels, which are supplied in a free standing cabinet, with a simple Harting plug connection to your existing mechanics.

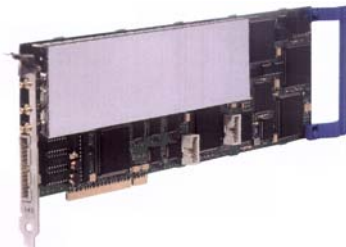
Ultrasonic Instrumentation

Our ultrasonic instrumentation is based on a single channel PCI card, which can be coupled to an 8-Channel multiplexer if required.



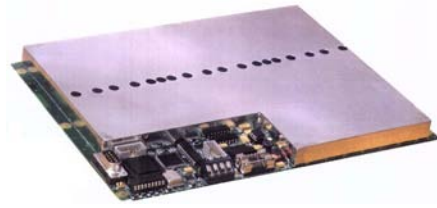
The features of our PCI ultrasonic instrumentation are;

- 0.5 to 20MHz bandwidth.
- 20KHz pulse repetition rate.
- 10 Bit Analogue to digital conversion, 200MHz at the maximum pulse repetition rate.
- Excellent near surface resolution.
- Very low noise in the PC environment at less than 20% full screen height.
- Designed for high speed A-Scan, B-Scan and C-Scan bus master data transfer.



The features of the 8-Channel multiplexer are;

- 8 remote pulsers, per-amplifiers and attenuators.
- Maximum pulse repetition rate per channel is the 20KHz pulse repetition rate for the PCI card divided by the number of active channels.
- Gain, monitor gates, DAC and outputs are independently set per channel.



Industrial Workstation Computer

The Industrial Computer is based on a standard PC using a Pentium III class processor. It is mounted into the cabinet at a height convenient for most operators. The system features:

- 15 Inch LCD screen.
- Passive industrial backplane.
- Plug in processor card, for easy of maintenance.
- Membrane keypad, 59 keys, and a touchpad, pointing device.

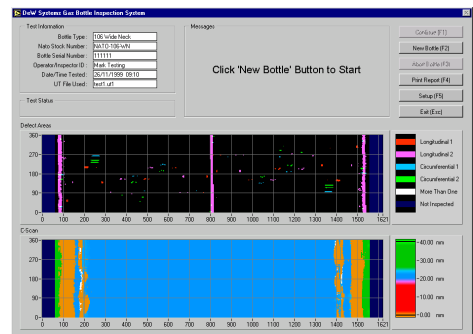
Available Software Packages

Supplied as part of the up-grade, is the software. We are able to offer the following software packages;

- Piston inspection - checking the bonding of an Al-Fin insert in a diesel piston, or crater cracking and oil cooling gallery position with up to 8 channels.



- Gas cylinder inspection using 4 shear wave channels and a single compression wave channel.



- Tube and bar inspection and any other ultrasonic system where our standard chart recorder software is suitable.