

Radiation resilient ultrasonic transducers

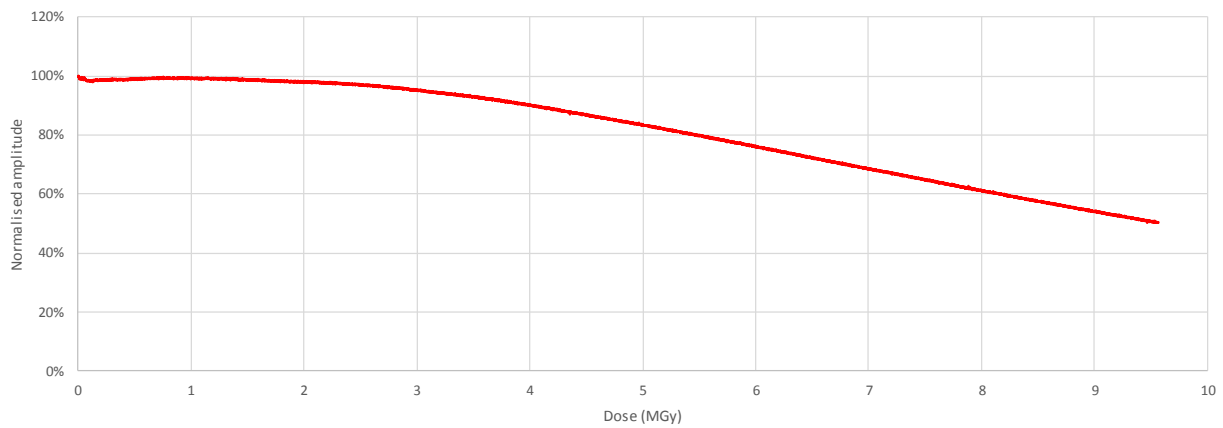


Designed for ambient temperature inspection and NDT applications in high radiation environments, Precision Acoustics' RRUS transducers have been tested up to a cumulative Gamma dose of 9.5 MGy with almost no change in performance up to doses of 2 MGy.

Transducers are available from 5-20 MHz and incorporate a 20 mm delay line as standard. Additional radiation shielding and/or delay line lengths can be supplied by request to allow greater radiation exposure or to allow probes to be fitted into existing systems with specific size requirements for sensors.

- Operating frequencies from 5-20 MHz
- Designed for contact use.
- 20 mm delay line as standard. (Custom options available)
- Compact housing design with BNC connector.
- Tested up to 9.5 MGy γ -irradiation from Co60 source.
- Almost no change in performance up to 2 MGy cumulative dose.

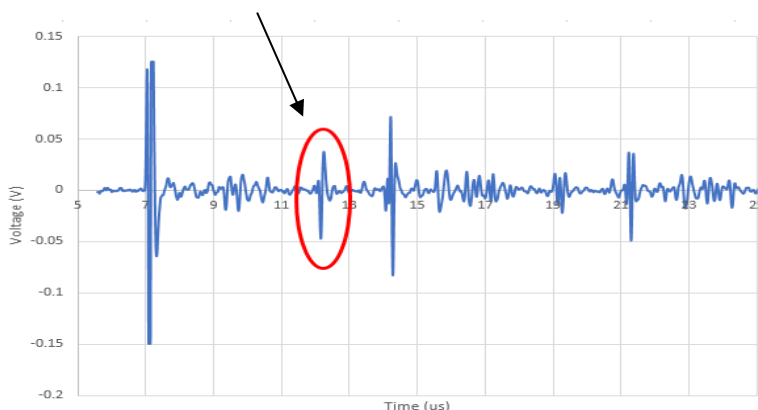
TYPICAL PROBE PERFORMANCE AS A FUNCTION OF CUMULATIVE GAMMA DOSE



ACOUSTIC PERFORMANCE

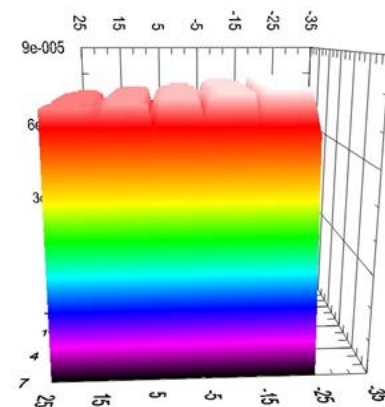
A-SCAN

Contact A-scan showing FBH defect at 15 mm depth in steel test block. Made using an 8 MHz probe after 9 MGy gamma exposure.



THICKNESS GAUGING

Used as an immersion probe: 3D representation of a C-scan showing time-of-flight to a 5-layer step-block.



For more information visit; www.acoustics.co.uk or email; pa@acoustics.co.uk

All information is based on results gained from experience and tests, and is believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon as conditions of use lie outside the control of Precision Acoustics Ltd

Precision Acoustics Ltd, Hampton Farm Business Park, Higher Bockhampton, Dorchester, Dorset DT2 8QH, UK
t. +44 (0)1305 264669 f. +44 (0)1305 260866 e. pa@acoustics.co.uk w. acoustics.co.uk