DASEL S.L. - ULTRASOUND TECHNOLOGY

AIRSCOPE SOLUTIONS

Main applications: •Air-coupled NDT •Positioning systems, •Acoustic Vision •Lamb waves •Structural Health

•Structural Health Monitoring.

Available models:

- Airscope TT (Monochannel)
- Airscope MX (Multichannel)
- Airscope PA (Phased Array)



	AIRSCOPE - Technical features		
	Bandwidth	30KHz to 1MHz	
	Dynamic range	80 dB	
	Tuned Squared Pulse	-20V to -800 V	
	Encoder inputs/trigger input	Yes	
	Advanced signal processing	EMI, AVR, FIR, etc	
	Airscope TT	1 channel	
	Airscope MX	Up to 8 channels	
	Airscope PA	Up to 64 channels	
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AIR-COUPLED TRANSDUCERS

The air-coupled ultrasonic technique has shown to be very efficient and fast for the testing of large areas. The air-coupled technique avoids coupling problems like bubbles in water, but the large acoustic mismatch between solids and air must be solved with special transducers, a powerful excitation as well as hardware and software signal processing.

Features:

- Connectors: BNC / SMB / Lemo00.
- Housing: anodized aluminum.

Plate Wave

- Electric Matching with Airscope series
- Crown to protect the radiant surface
- Each pair of transducers is identical and can be

P-E with Sound Barrier

used without distinction as a sender or receiver. All transducers can also work in pulse-echo mode.

- Compatibility: The transducers have been successfully tested with DASEL devices (Airscope TT/MX/PA).

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