

Dry Point Shear Wave Transducers 40kHz





Quick Reference







40 kHz DPC shear wave transducer

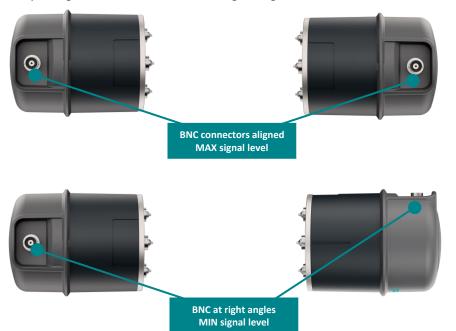
40 kHz DPC shear wave transducer

Measuring Alignment



Shear wave signals are polarized.

It is necessary to align the transducers to obtain a good signal level.

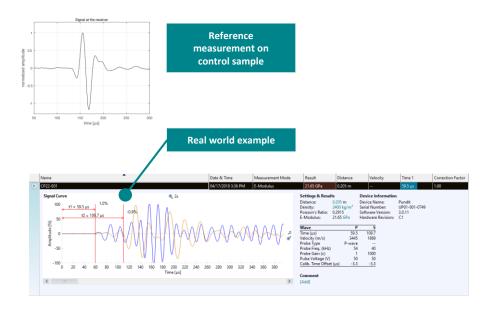


Received Pulse Detection



The received pulse is the first significant negative pulse.

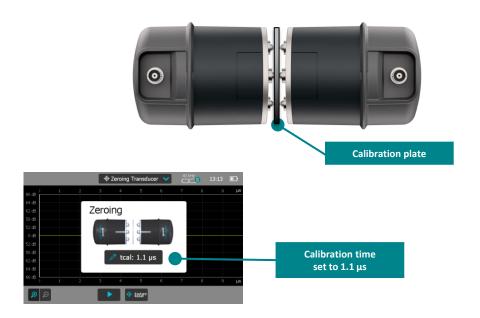
On small samples it may be necessary to the result achieved with automatic triggering



Zeroing



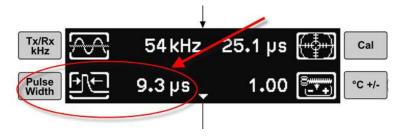
Make sure the transducers are aligned using the BNC connectors as a reference



Use with Pundit Lab, Pundit Lab+



The variable pulse width setting allows non-standard transducers up to 500 kHz to be used with Pundit Lab. Simply set the pulse width accordingly.



Pulse width "p" in microseconds (μs) to be entered here is calculated from the formula p=1'000/(2*f) ,

where f = transducer frequency in kHz

Set to 12.5 μs

Specifications



Specifications

Type: 5 x Dual-Crystal, dry-point contact

Frequency: $40 \text{ kHz} \pm 4 \text{ kHz}$ Bandwidth: 35 - 40 kHz Driving voltage: -200 to +200 V

Matching inductance: absent
Piezo electrical cell capacity: 5 x 0.6 nF

Connector type: BNC

Operating temperature: 0...+50° C
Contact surface diameter: 5 x 2 mm
Diameter: 84 mm
Length: 114 mm
Weight: 340 q

Wave type: Shear wave





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