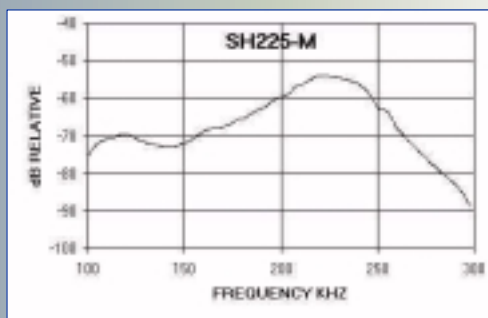




The SH225-M is the first shear mode transducer to be provided for acoustic emission researchers interested in studying the role of shear waves in acoustic emission testing. We have found in our research that shear waves play an important role in acoustic emission testing of structures constructed from plates. Out-of-Plane (OOP) sources of acoustic emission signals from impact and friction (extraneous noise sources) often produce a high frequency shear wave that is interpreted as an extensional wave produced by in-plane (IP) crack growth.

The use of two SH225-M transducers, one as a pulser and the other as a receiver will provide a method for researchers to measure the effects of wave propagation of shear waves of different polarization in plates as well as measure their velocity.



SH225-M

SHEAR MODE ACOUSTIC EMISSION SENSOR

SPECIFICATIONS

CALIBRATION	Face to face ultrasonic with standard DECI transmitter
PARTICLE MOTION	Perpendicular to long direction
FREQUENCY RESPONSE	see response curve
OPERATING TEMPERATURE	-50 to +125°C
CIRCUIT CONFIGURATION	Single ended
GROUNDING	Case-isolated with integral ceramic wear plate for electrical isolation.
CASE MATERIAL	Aluminum standard. Stainless steel available
WEIGHT	12 grams (aluminum case)
DIMENSIONS	20mm dia X 13mm high
CONNECTOR	10-32 connector side mounted. Option-1M integral cable terminated in BNC connector.

ACCESSORIES:

- Integral Preamplifier
- MB-1 Cable
- 500J Power Adapter



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