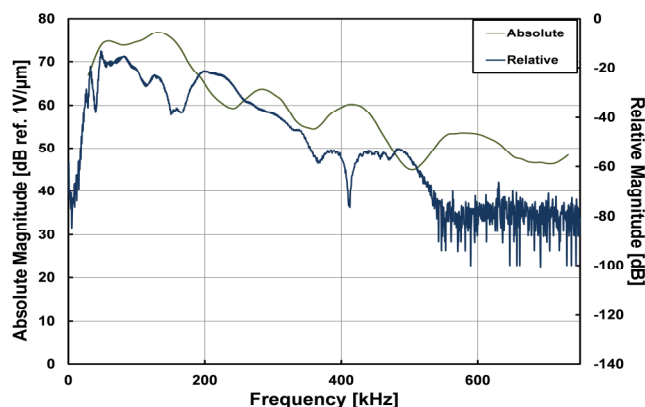


B225.5 IPP— Broadband Acoustic Emission

- Broadband response from 50—400 kHz—Ideal for thick structures!
- Flat with frequency response for Modal Acoustic Emission (MAE) analysis
- Larger diameter increases sensitivity
- Internal +20dB pre-amplifier enhances sensitivity, while minimizing cabling
- Internal pulser option used for an auto-sensor test which eliminates the need for pre-test lead break
- Rugged stainless steel case
- Rare earth magnet holder allows for rapid & consistent coupling to ferrous structures
- Suitable for ASTM E1419 and E2191, and ASME Section V testing
- Applications include composite materials and metallic fatigue monitoring, vibration monitoring, pressure vessel inspection and much more!



Typical absolute sensitivity via NIST surface wave calibration (ASTM E1106) & face-to-face relative sensitivity (ASTM E976)



Digital Wave Corporation, the originators of Modal Acoustic Emission (MAE), brings you the B225.5 IPP sensor. With the sensitivity of a resonant transducer (nominal +73 dB [ref. 1V/μm] @ 150 kHz), and a flat frequency response from 50 – 400 kHz, the B225.5 IPP sensor is an ideal candidate for the MAE testing of relatively thick structures (e.g., thick walled high pressure vessels, A.O. Smith pressure vessels, thick laminated structures, etc.). The B225.5 IPP sensor has a built in +20 dB pre-amplifier, that also has the ability to pulse the piezoelectric crystal facilitating an auto-sensor test that eliminates the need for the standard pencil lead break to verify sensor coupling. The rare earth magnet incorporated into the B225.5 IPP design permits rapid and consistent sensor attachment to ferrous test structures. Suitable applications for the B225.5 IPP sensor range from metallic fatigue test monitoring through Above Ground Storage Tank testing, all the way to MAE examination of composite overwrapped vessels.

Specifications:

- Dimensions: 33.3mm(1.31in) OD X 40.64mm(1.6in) H
- Piezoelectric Crystal: 6.35 mm(0.25in) OD
- Connector: Side-Mounted BNC
- Temperature Range: -50 deg C to 80 deg C

Calibration:

- Face-to-Face relative cal standard (ASTM E976)
- Absolute surface wave cal available for additional fee (ASTM E1106)

Associated Required Hardware:

- Sensor to System cable: SG-10006 or SG-10012
- System: Oscilloscope or MAE Multi-channel system