

Teledyne RESON Acoustic Tank Accuracy & Uncertainty

Teledyne RESON maintains a strict error budget for acoustic tank calibrations which is used to generate the acoustic source level uncertainty estimates outlined in the tables below.

For single channel units such as hydrophones and transducers the source level uncertainties are as follows:

Single channel Equipment

Frequency	2-5kHz	5-20kHz	20-70kHz	70-420kHz	430-490kHz	500kHz	>500kHz
± dB	1.83	0.76	0.70	0.70	0.70	0.70	1,29

For multi-channel units such as array components for multibeam sonars the source level uncertainties are as follows.

Multi channel Equipment

Frequency	2-5kHz	5-20kHz	20-70kHz	70-420kHz	430-490kHz	500kHz	>500kHz
± dB	2.51	1.87	1.85	1.85	1.85	1.85	1.85

Reference hydrophones are calibrated at an accredited calibration laboratory at regular intervals.