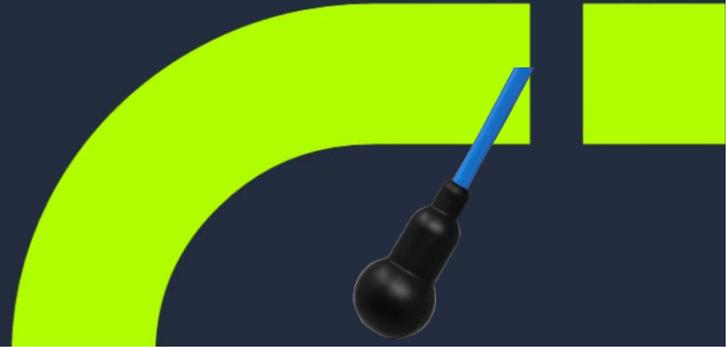


# SONO Sphere 115

Reciprocal transducers

Wide-frequency transducer for transmit and receive applications →



**SONO Sphere 115** is a horizontally omni-directional, reciprocal transducer operating over a wide range of frequencies, ideal for absolute sound measurements.

SONO Sphere 115 is made in a soft ceramic. It is highly reliable and comes in a protective, durable polyurethane coating.

### Key features

- Versatile over a wide frequency range
- Horizontally omni-directional
- Vertical directionality greater than 270 °
- Long-term stability
- Durable and reliable construction

### Applications

- Calibration reference standard for test and evaluation
- Capture a wide range of sound measurements sources including marine mammals and environmental noise
- Operations down to 1,000 m depth

### SONO Sphere 012

Nominal resonant frequency	115 kHz
Receive sensitivity @ 115 kHz	-204 dB re 1V/mPa
Recommended receive frequency range	10 Hz – 150 kHz
Transmit sensitivity @ 115 kHz	+150 dB re 1µPa/V @ 1 m
Recommended transmit frequency range	85 – 120 kHz
Maximum applied voltage at resonance	600 Vrms
Low frequency capacitance (@ 1 kHz)	11 nF
Horizontal beam pattern	Omni-directional +/- 1.5 dB @ 75 kHz
Vertical beam pattern	>270° +/- 2 dB

### Mechanical

Dimensions	Ø 25 mm x 61 mm
Weight in air / water	Approx. 40 g / 30 g
Maximum recommended operating depth	1,000 m
Operating temperature	-5° C to +35° C
Mounting	Dunking