

SeaKing Sub-Bottom Profiler

Parametric Sub-Bottom Profiler

Applications

- Site survey
- Route survey
- Pipeline crossing
- Wreck search
- Object detection

The specially designed transducer enables the echosounder to emit very low frequencies whilst minimising the size of the overall unit. Producing a 20 kHz pulse, the system is capable of penetrating the seabed and highlighting structural differences that are hidden from view to conventional echosounders.

Benefits

- Robust, proven, reliable design
- Easy integration with SeaKing sensors
- Penetrate sea-floor and silt

Features

- Dual frequency operation
- Compact design
- Energy efficient
- ARCNET or Serial
- 1000 m depth rating

If you need to obtain a clear picture of what lies below the seabed, look no further than the SeaKing Parametric Sub-Bottom Profiler from Tritech. Sub-bottom profiling is now possible from this compact, low power, unit. Ideal for ROV and AUV use.

Part of the SeaKing range of sensors the Parametric Sub-bottom Profiler is easy to integrate into a sensor network using ARCNET or serial communication protocols. This allows all of the data from the suite of sensors to be displayed on one Surface Control Unit (SCU).

The display allows the operator to view the raw 200 kHz seabed profile or choose to view the 20 kHz sub-bottom layers produced by the parametric pulse or view both at the same time.

Key Specification	
Frequency	20 kHz & 200 kHz
Beamwidth	4.5° & 4°
Pulse length	200 µs
Dimensions	319 mm x 200 mm / 12.56 in x 7.88 in
Weight in water	2.70 kg / 6.00 lbs

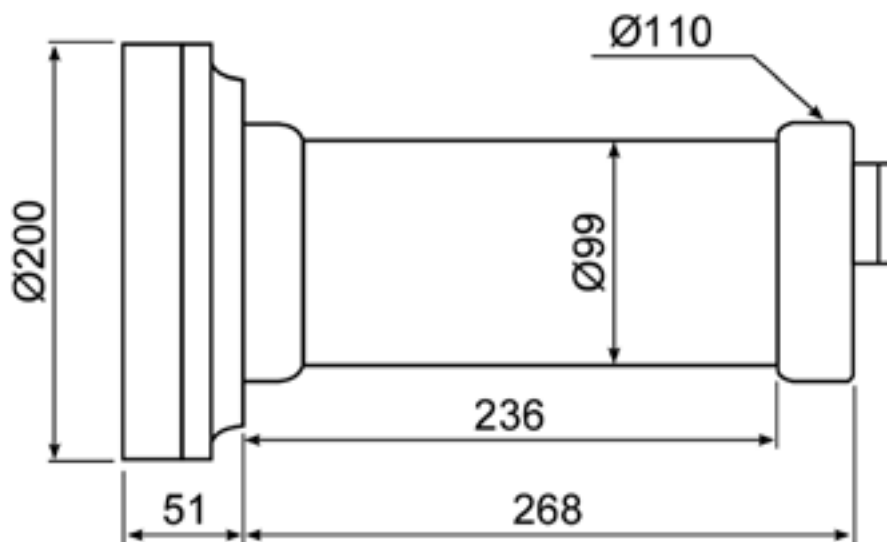
Acoustic	Low Frequency	High Frequency
Frequency	20 kHz	200 kHz
Beamwidth	4.5°	4°
Pulse length	200 μs	

Electrical and Communication	
Power requirement	20-72 Vdc (410 mA @ 20 Vdc)
Communication protocols	ARCNET, RS232, RS485

Software	
Software provided	Tritech Seagnet Pro or low-level direct command control

Physical specification	
Depth rating	1000 m / 3280.84 ft
Weight in air	6.30 kg / 13.89 lbs
Weight in water	2.70 kg / 6.00 lbs
Temperature rating (operating)	-10 °C to 35 °C / 14 °F to 95 °F
Temperature rating (storage)	-20 °C to 50 °C / 4 °F to 122 °F

Specification subject to change in line with Tritech's policy of continual product development



Not to scale. Measurements in mm.