

SeaKing Sub-Bottom Profiler

Parametric Split-Head 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 20kHz 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 RS232
- 4000m 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 Trittech. 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 200kHz seabed profile or choose to view the 20kHz sub-bottom layers produced by the parametric pulse or view both at the same time.

Key Specification	
Frequency	20kHz & 200kHz
Beamwidth	4.5° & 4°
Pulse length	100µs
Weight in water	2.70kg / 6.00lbs

Acoustic	Low Frequency	High Frequency
Frequency	20kHz	200kHz
Beamwidth	4.5°	4°
Pulse length	100µs	

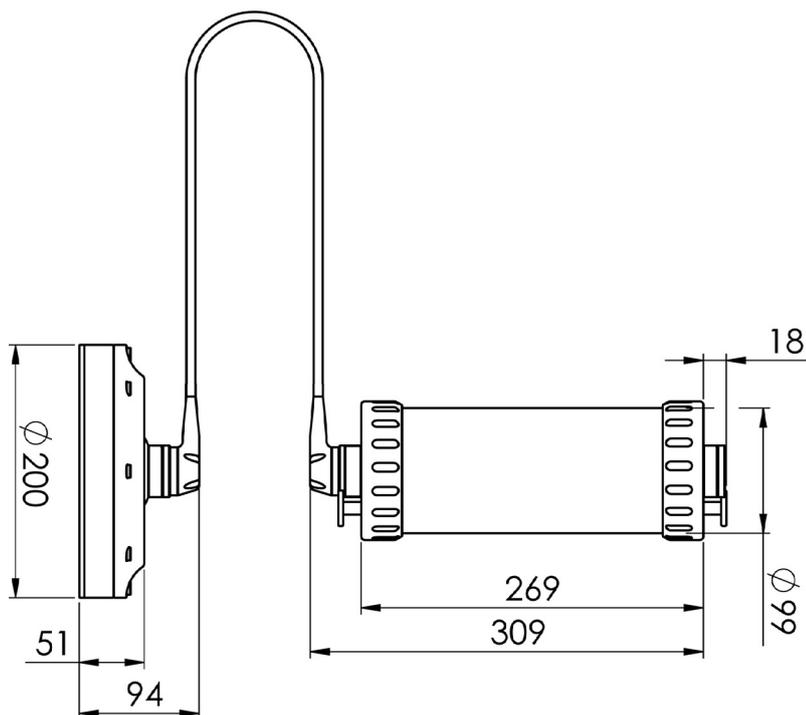
Electrical and Communication	
Power requirement	20 to 72V DC at 8W*
Communication protocols	ARCNET, RS232, RS485
Rate	ARCNET: 156kbps (maximum) RS232 & RS485: 115.2kbps (maximum)
ARCNET line driver	1500m at 156kbps 2500m at 78kbps
Connector type	Tritech 6-pin (standard)

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

Physical specification	
Depth rating	4000m / 13,124ft
Weight in air	6.40kg / 14.11lbs
Weight in water	2.70kg / 6.00lbs
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 Trittech's policy of continual product development

*The power consumption range quoted is accurate for a standalone unit and ignores cable losses.



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Not to scale. Measurements in mm.

0374-SOM-00021 Issue 3

