

# Super SeaKing Bathymetric

## Integrated Oceanographic Sensor Suite

### Applications

- Underwater inspections including pipeline, site and route surveys
- Echosounder surveys



The V7 Super SeaKing 704 Bathymetric system is now fitted with high accuracy conductivity and temperature sensors, resulting in increased survey grade performance. A scientific option is also available for use where the user requires measurements recorded to an even higher degree of accuracy.

### Benefits

- Available in Survey and Scientific grade
- Compact and easy to install on an ROV
- Seamlessly operates with dedicated SeaKing network

### Features

- Real-time monitoring of temperature, pressure and conductivity
- Housing pressure relief system
- 700 m to 4000 m depth ratings
- Reliable and accurate sensors
- Software development kit available

The DigiQuartz depth sensor continues to provide accurate pressure measurement, which results in the Super SeaKing Bathymetric package calculated providing depth information to a higher degree of accuracy than ever before. New electronics, along with the latest high accuracy sensors, packaged within the Super SeaKing Bathymetric system, have resulted in a product that offers increased reliability as well as improved performance. To maintain the highest level of performance, the Super SeaKing Bathymetric system continues to be supplied with either a 700 m, 1400 m, 2000 m or 4000 m DigiQuartz depth sensor.

The Super SeaKing 701 Bathymetric system, supplied without a CT sensor, provides users with a high accuracy pressure measurement and also now benefits from increased reliability and the use of the latest electronics. The electronics design now allows the Super SeaKing Bathymetric system to be supplied with additional communication capability. Ethernet, ARCNET, RS232 and RS485 communications are all available on the Super SeaKing Bathymetric system, simplifying the installation on ROV/AUVs of all types.

Key Specification	
Sensors	Depth, temperature & conductivity
Grade	Survey & scientific
Depth rating	700 m - 4000 m / 2297 ft - 13,124 ft
Weight in water	1.65 kg / 3.64 lbs

Depth sensor specification	Repeatability	Hysteresis	Drift
Paroscientific Digiquartz	0.01% FSD	0.015% FSD	0.015% FSD

Temperature sensor specification*	Range	Accuracy	Drift
Survey grade	-5 °C to 35 °C / 23 °F to 95 °F	±0.01 °C / 32 °F	±0.002 °C / 32 °F per year
Scientific grade	-5 °C to 35 °C / 23 °F to 95 °F	±0.005 °C / 32 °F	±0.005 °C / 32 °F per year

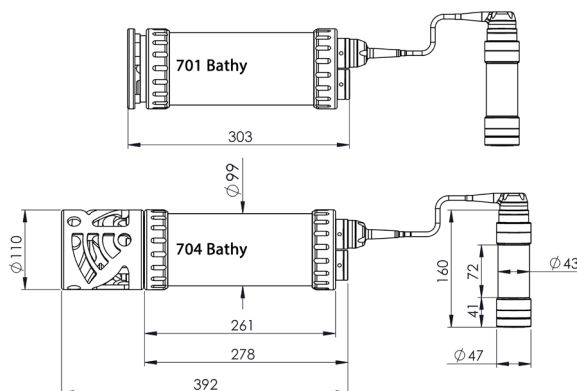
Conductivity sensor specification*	Range	Accuracy	Drift
Survey grade	0 to 8.5 S/m	±1.0 mS/m	±0.1 mS/m per month
Scientific grade	0 to 8.5 S/m	±0.3 mS/m	±0.1 mS/m per month

Altimeter specification	Frequency	Range	Beamwidth
PA500	500 kHz	0.3 m to 50 m 0.99 ft to 164.05 ft	6° conical

Electrical and communications	ARCNET variant	Ethernet variant
Power requirement	20-72 VDC at 8 W	
Main port communications	ARCNET or Serial (RS232 / RS485)	Ethernet or Serial (RS232 / RS485)
Aux port communications	Serial (RS232 / RS485)	Serial (RS232 / RS485)

Physical specification	SSK 701 series	SSK 704 series
Depth rating	700 m, 1400 m, 2000 m or 4000 m 2297 ft, 4594 ft, 6562 ft or 13,124 ft	
Weight in air	3.50 kg / 7.72 lbs	4.05 kg / 8.93 lbs
Weight in water	1.50 kg / 3.31 lbs	1.65 kg / 3.64 lbs
Material	Anodised aluminium alloy	
Operating temperature	-5 °C to 35 °C / 23 °F to 95 °F	
Storage temperature	-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.

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