

Super SeaKing Bathymetric

Integrated Oceanographic Sensor Suite

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.

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, simplifying the installation on ROV/AUVs of all types.



Benefits

- Available in Survey and Scientific grade
- Seamlessly operates with dedicated SeaKing network
- Underwater inspections including pipeline, site and route surveys
- Echosounder surveys

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

Key Specification

Sensors	Depth, temperature & conductivity
Grade	Survey & scientific
Depth rating	700 - 4000 m / 2297 - 13123 ft
Power requirements	20-72 Vdc at 8 W
Weight in water	1.65 kg / 3.64 lbs

Acoustic Specifications	Repeatability	Hysteresis	Drift
Paroscientific Digiquartz	0.01% FSD	0.015% FSD	0.015% FSD

Temperature sensor pecification	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

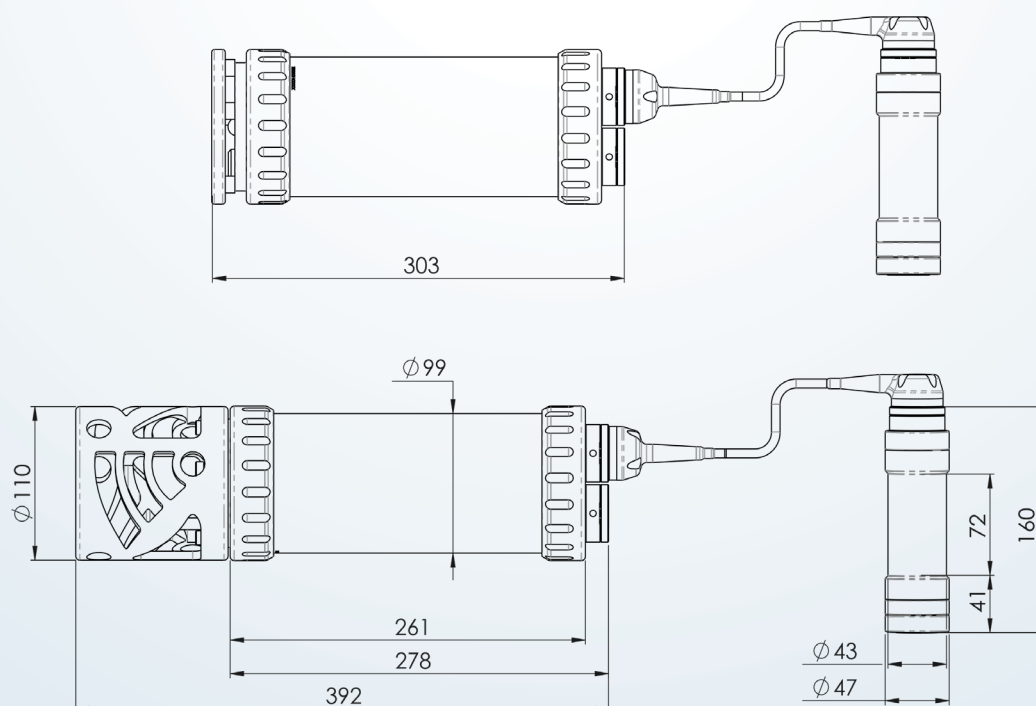
Conductivity sensor specification	Range	Accuracy	Drift
Survey grade	0 to 8.5 S/m	±1.0 mS/m	±0.1 mS/m per month
Scientific grade	0 to 8.5 S/m	±1.0 mS/m	±0.1 mS/m per month

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

Electrical and Communications	ARCNET	Ethernet
Power requirement	20 to 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, 1400, 2000 or 4000 m / 2297, 4594, 6562 or 13123 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	
Temperature rating(operating)	-5 to +35 °C / -23 °F to +95 °F	
Temperature rating (storage)	-20 to +50 °C / -4 °F to +122 °F	

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



Not to scale. Measurements in mm.