

Bathymetric Systems

Tritech SeaKing 700 Series

Comprises of up to four high resolution sensors:

Tritech PA500 Precision altimeter
 Paroscientific Digiquartz Precision depth sensor
 Falmouth Scientific Conductivity probe
 Falmouth Scientific Temperature probe

There are two standard configurations available:

SeaKing 701 Bathymetric system comprising depth and altitude sensors
 SeaKing 704 Oceanographic system - as 701 but with temperature and conductivity sensors

Other configurations can be supplied on request.



Oceanographic package showing Conductivity – Temperature probe

Precision Depth Sensor

Sensor Type	Paroscientific® Digiquartz
Repeatability	0.01% FSD
Hysteresis	0.015% FSD

Drift	0.015% FSD
Calibration	Class A Dead weight Tester
Operating Temperature	-10°C to +35°C
Storage Temperature	-20°C to +50°C

Temperature & Conductivity Sensor

Conductivity Sensor	Falmouth Scientific
Range	0 to 65mmho/cm (0 to 6.5S/m)
Accuracy	±0.025mmho/cm
Stability	±0.005mmho/cm/month
Temperature Sensor	Platinum Resistance
Range	-5° to +35 Celsius
Accuracy	±0.050° Celsius
Stability	±0.005° Celsius/month

Weights and Dimensions of Sensors

Overall Length	262mm
Overall Length with C&T Probe	417mm
Body Tube Diameter	99mm
Maximum Diameter	110mm
Weight in Air	3.5 kg
Weight in Air with C&T Probe	4.2 kg
Weight in Water	1.5kg
Weight in Water with C&T Probe	2.1 kg
Materials	HE30 Alloy Acetal, SS316,GF Nylon

Electrical

Input voltage	24-28VDC @8VA
Communication	ARCNET
Single Head	RS232*

PA500 Precision Altimeter

Frequency	3.5 kg
Beam Width	4.2 kg
Range Resolution	1.5kg
Minimum Range	2.1 kg
Maximum Range	HE30 Alloy Acetal,
Overall Length	148mm
Diameter	47mm
Weight in Air	0.75 kg
Weight in Water	0.45 kg
Material	316 Stainless Steel
Operating Temperature	-10°C to +35°C
Storage Temperature	-50°C to +50°C

System Recalibration Tolerances

Pressure	0.015% FSD
Conductivity	0.1% FSD
Temperature	0.5% FSD

