

TrackDyne AsterGrid Buoy



GNSS-Equipped Surface Sonobuoy

Technical Specifications

PARAMETER	VALUE
Dimensions (Ø × h)	125 × 790 mm
Weight (dry)	4.8 kg
Excess buoyancy	1 kg
Acoustic range	3 000 m
Acoustic source level (in-band)	170 dB re 1 µPa @ 1 m
Carrier frequency	20 100 Hz
Max. inter-buoy spacing	700 m
Min. inter-buoy spacing	30 m
Battery type	LiFeP04
Battery life	24 h
Transducer cable length	1 m
Reference ellipsoid	WGS-84
Max. relative velocity	±1.8 m/s
Working temperature	-10 ... +50 °C

TrackDyne AsterGrid Node



Navigation Receiver for ROVs / AUVs

Technical Specifications

PARAMETER	VALUE
Dimensions (Ø × h)	64 × 62 mm
Weight (dry)	0.30 kg
Depth rating	300 m
Nominal 2D accuracy (2DRMS)	0.84 m
Nominal depth accuracy	0.1 m
Position update rate	1 Hz
Time to first fix	28 s
Max. working area	700 × 700 m inside the buoy figure
Power consumption	0.35 W
Supply voltage	12 V
Data lines voltage	3.3 V
Interface	UART 9 600 bps
Protocol	NMEA0183 (RMC, GGA, WTW)
Cable length	1 m
Reference ellipsoid	WGS-84
Max. relative velocity	±1.8 m/s
Startup time	100 ms
Temperature sensor accuracy	0.1 °C
Working temperature	-5 ... +50 °C



Diver Navigation Console

Technical Specifications

PARAMETER	VALUE
Dimensions — acoustic unit (Ø × h)	64 × 64 mm
Dimensions — display unit (l × w × h)	84 × 118 × 36 mm
Weight (dry)	0.65 kg
Depth rating	70 m
Nominal 2D accuracy (2DRMS)	0.84 m
Nominal depth accuracy	0.1 m
Position update rate	1 Hz
Time to first fix	28 s
Max. working area	700 × 700 m inside the buoy figure
Battery type	Li-Ion
Battery life	8 h
Charging	Via the included USB dongle
Waypoints	Up to 20 pre-loaded + 20 marked
Track autosave	Up to 2 h @ 1 Hz
Acoustic unit cable length	1.2 m
Temperature sensor accuracy	0.1 °C
Reference ellipsoid	WGS-84
Working temperature	-5 ... +50 °C