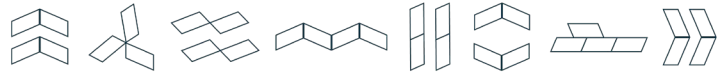


## NASNet® MkII Mini Station (MS)

Accurate long term positioning from seabed to surface

NASNet® MS deployment is an ideal solution for smaller scale or shallower water projects, particularly suited as a localised subsea array for Dynamic Positioning Reference (DPR) where activities benefit from reliable signalling with ranges in excess of 7,000m.

NASNet® MS can be deployed in frames or secured to seabed in weighted buoyancy collars. MS are used in conjunction with NASNet® and is a ready alternative to traditional LBL beacons, offering all the benefits of NASNet® Simultaneous Operations (SIMOPS) between multiple vessels and subsea targets.



# NASNet® MkII Mini Station (MS)

Accurate long term positioning from seabed to surface



## Advantages

- Ideal solution for subsea ROV and structure positioning for deepwater construction
- Use as a stand-alone array or alongside larger stations
- Deployment using seabed frames or acoustic release
- Full field coverage for life-of-field
- Long range capability for wide area coverage with fewer seabed assets
- Fully compatible with all NASNet® functions
- Acoustic Digital Spread Spectrum (ADS<sup>2</sup>)
- True multi-user positioning for unlimited tracked objects
- Fast update rate in any water depth
- No acoustic interference
- No frequency management issues
- Long battery life for reduced battery servicing

## Technical Specs

Operating frequency	10 kHz with a 3 kHz spread, Acoustic Digital Spread Spectrum (ADS <sup>2</sup> )		
Power output	Configurable 157-196 dB re 1 µPa, up to 1 second range pulse rate		
Transmitter beam width	210 degrees		
Depth rating	3500 msw		
Operational battery life (at 5 second pulse rate)	Output Power	Days (Alkaline - continuous)	Days (Lithium - continuous)
	180	193	399
	182	134	326
	184	90	247
	186	60	171
	188	39	97
	190	25	47
MS (standard)	8006-9300: MS Alkaline, 8006-5400: MS Lithium 1140 x 244 mm (diameter), 66 kg (weight in air), 28 kg (weight in water)		
MS-AR (acoustic release)	8006-5203: MS-AR Alkaline, 8006-5500: MS-AR Lithium 1280 x 244 mm (diameter), 76 kg (weight in air), 31 kg (weight in water)		
Buoyancy	8006-5202: Buoyancy 929 x 654 x 612 mm, 166 kg (weight in air), 92 kg (weight in water - net buoyant)		
MS Adapter Stab	8006-5103: MS Adapter Stab 354 x 178 mm (diameter), 6 kg (weight in air), 0.8 kg (weight in water)		
Battery	256-206-000 Alkaline, 0114-3626 Lithium		