NASNet® Mobile Transceivers (MTrx) are used to provide accurate positioning for remote objects through the water column, from seabed to surface. NASNet® MTrx can also be used as an acoustic data telemetry link for internal or external interfaced sensors. NASNet® MTrx is a battery powered unit primarily used for positioning objects which have no physical data or power link to the vessel or ROV.

NASNet® MTrx can also be used as a source of range data. A prime example of this functionality would be to use an MTrx to position a structure during installation and then use as a range data from the asinstalled position as an additional reference range for subsequent structure installations.

Features & Benefits

- Structure and pipeline positioning solution for deepwater subsea construction activities
- Internal depth and inclinometer sensors
- Capability to interface and relay external sensor data information
- Monitoring of remote object e.g. Risers
- Transfer of sensor data from remote objects
- Pipeline bundle monitoring during tow
- Real-time position QC of NASNet® positioning
- Fully compatible with all NASNet® Station systems and ADS² signalling systems
- Fast update rate (typically 1Hz) in any water depth
- Reliable communications due to advanced digital signalling techniques
- Robust acoustic data transfer capability
- True multi-user positioning system
- Unlimited tracked objects with no acoustic interference
- No frequency management issues and highly automated functionality





NASNet® Mobile Transceiver (MTrx)

NASNet® MTrx Technical Summary					
Overview					
Operating frequency	11.2	5kHz with a 3kHz spread	Part number		8006-5303
Signalling	Acou (ADS	ustic Digital Spread Spectrum ³²)	External dimensions		1140 x 244mm (diameter)
Power output	Prog µPa	rammable 157–196 dB re 1	Weight in air		66kg
Pulse rate	Up t	o every 1 second range pulse	Weight in water		33kg
Transmitter beam width	210°		Replacement battery options		256-206-000 alkaline
Depth rating	4000 msw (options for 6000msw)		Battery life	Typical	34 days *
Construction	Aluminum 6028–T6			Self discharge	1200 days minimum
External interface supported	RS485/422			Listening mode	1080 days minimum
*Operational at 180 (dB re 1 µPa) with a 1Hz update rate. Includes depth, pitch and roll individual telemetry at 0.1 Hz. Power output levels between 157 – 190 dB will affect Battery life.					
Internal sensors	Integrated CDL mini Tilt		Accuracy		0.05
			Resolution		0.01
	Integrated kellar series 33x standard		Accuracy		0.1% FS standard
Interfacing			Compatible Options		
	Bulkhead impulse connector pin out		Acoustic release	Part number	135-213-000
	Pin	Designation	Buoyancy	Part number	806–5202
	1	Debug Tx (diagnostic only)		Dimensions	929 x 654 x 612mm
	2	Gnd		weight in air	165.6 kg
	3	N/C		weight in water	92.1kg ±6.8kg net buoyancy
	4	Debug Rx (diagnostic only)			
	5	RS485A/RS422 (data+)			
	6	RS485B/RS422 (data-)	MS adapter stab	Part number Ext.	806–5103
	7 BATT 0V			Dimensions	354 x 178 mm (diameter)
	8	+24V		Weight in air	6kg
Impulse connector	MHDG-8-BCR-NSO			Weight in Water	0.8kg
		(View of mating face)			
Optional interface tail		Part Number: 3014–0498			

