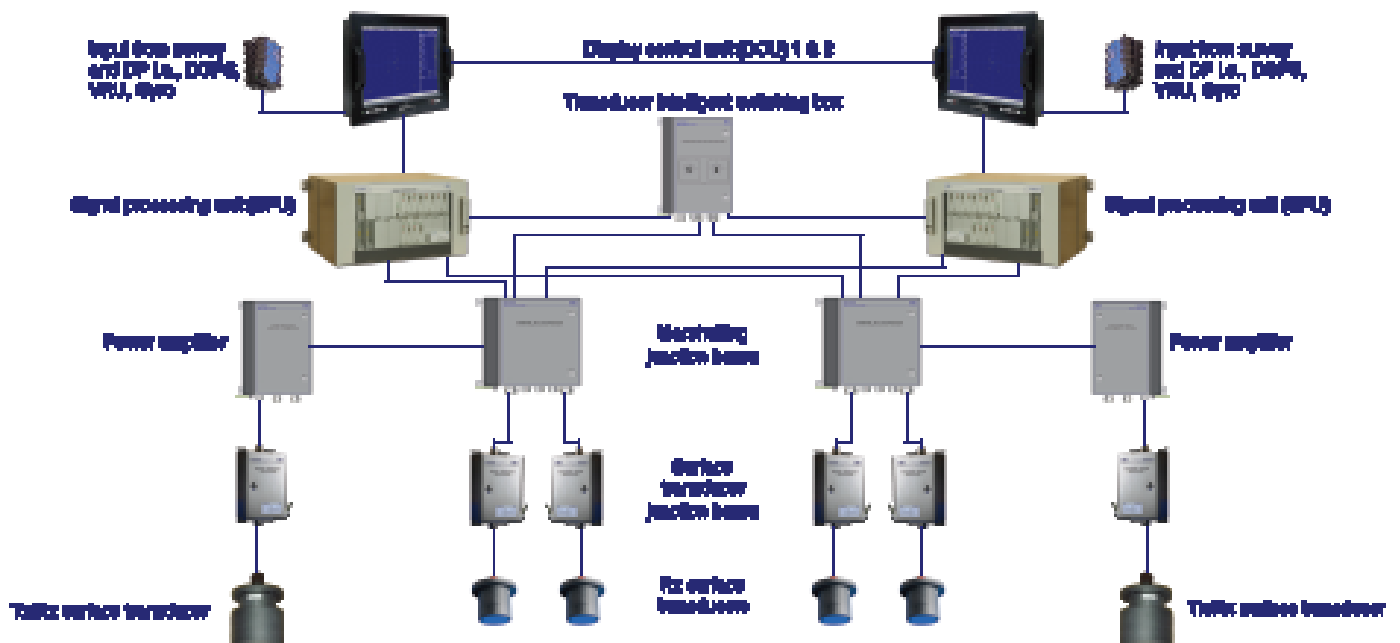# NASDrill RS925

The NASDrill RS925 SBL/LBL acoustic positioning system has been designed specifically to meet the requirement for a reliable and robust Dynamic Positioning (DP) reference system. It is particularly suited to the demanding applications of deep water offshore operations. Using unique ADS^2 technology, NASDrill RS925 delivers significant improvements in system accuracy, noise tolerance and signal integrity.

Features & Benefits

- Fully compliant with international acoustic DP sensor requirement specifications
- Combine the two most accurate acoustic positioning techniques available
- Accuracy 0.15% slant range (SBL only)
- 1.0m RMS @ 4000msw depth (LBL only)
- Quoted accuracies are total system
- Small beacon grid size (normally 500m-700m)
- Integrates with NASeBOP emergency acoustic BOP control system
- Differential riser angle monitoring (flex joint)
- Position and differential angle alarms and watch circles
- Redundancy in all aspects of the system
- Provides multiple independent SBL and LBL solutions
- Simple and fast calibration
- Uses ADS^2 signalling
- System can be changed to meet client or operational requirements
- Fully compliant with Petrobras specifications

Smart Solutions

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NASDRill RS925 SBL/LBL Technical Summary			
System hardware	Industrial touch screen display and control unit (DCU) 17" integrated display or 19" split unit option Signal processing unit housing multiple high-speed digital signal processors High resolution Windows Graphical User Interface (GUI) Built-in spectrum analyser to assist operations Directional receive and interrogate transducers Automatic hydrophone data rejection Intelligent acoustic/transponder/responder/pinger beacons Simple transducer deployment system Integrates to NASeBOP emergency acoustic control system Configurable as dual redundant or split independent systems		
Surface transducers: transmit/receive	Weight: 10.8kg Size: 210mm diameter x 267mm height Transmit beamwidth: 60° at 11kHz Receive beamwidth: 60° at 17kHz	Surfacer tranducers: receive	Weight: 4kg Size: 230mm diameter x 170mm height Beamwidth: 40° at 22kHz
Inputs	Up to 9 serial sensor inputs e.g. GPS, motion sensor, gyrocompass	Outputs	Serial output data to: Dynamic positioning systems Printer Logging Navigation systems etc.
Interfacing	2 RS232 serial ports 16 configurable RS232/422/485 ports Up to 6 x USB 2.0 ports	System software	Self-test routines Real time alarm and error reporting Real time data logging
System options	Additional transducers (maximum of 8 including 2 Tx/Rx) Redundant hardware (dual or triple) Transducer deployment system(s) Remote monitor(s) Flotation collars Maxi beacon mounting bracket	Beacons	ADS^2 maxi beacons P/N 135-101-000 (position or riser angle) ADS^2 maxi beacons with acoustic release P/N 135-105-000 (position or riser angle) Maxi beacon configuration kit P/N 3018-0077 ADS^2 high power mini ROV positioning beacons P/N 129-008-000