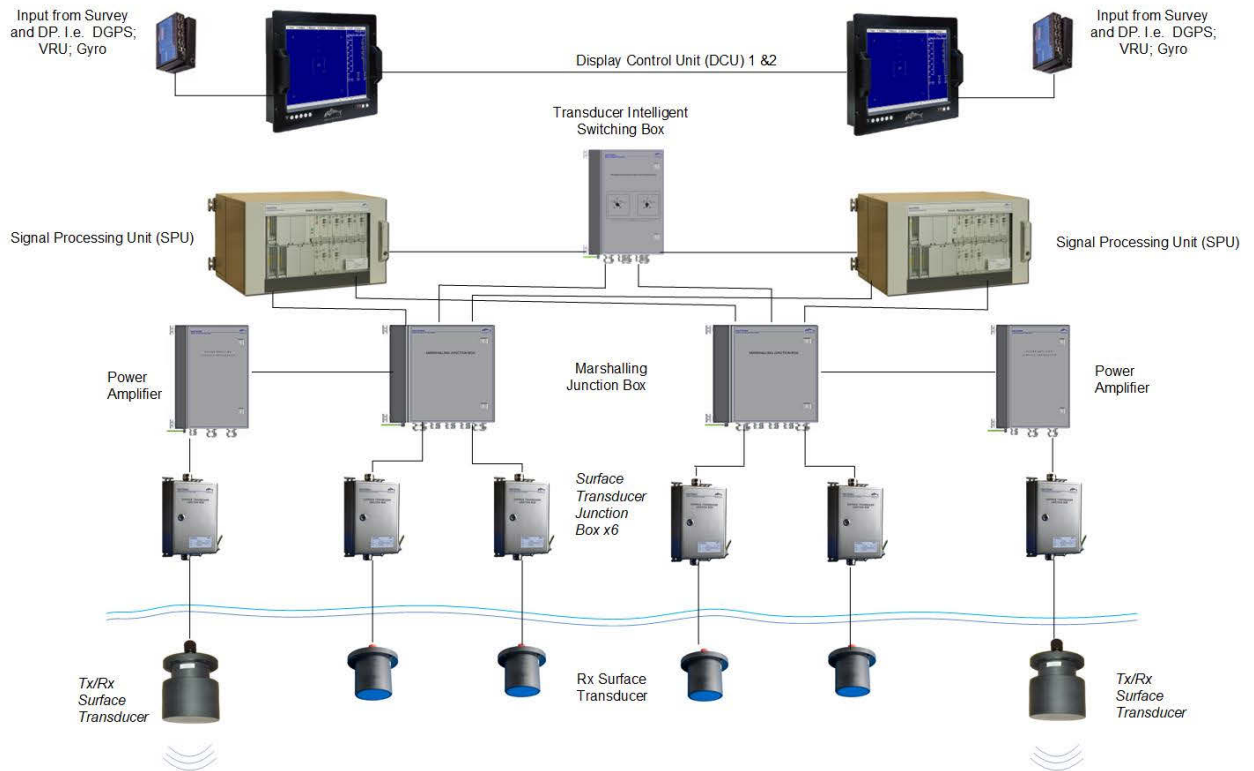


# NASDrill RS925



Fully compliant with international acoustic DP sensor requirement specifications

The Imenco Nautronix NASDrill RS925 is an advanced subsea acoustic positioning system combining long baseline (LBL) and short baseline (SBL) operating modes. It is designed specifically to meet the dynamic positioning (DP) reference requirements of ultra-deepwater drilling vessels by providing independent LBL and multiple SBL outputs to the DP system up to 1Hz.

# NASDrill RS925

It is particularly suited to the demanding applications of deep water offshore operations. Using unique ADS2 technology, NASDrill RS925 delivers significant improvements in system accuracy, noise tolerance and signal integrity.

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.

## Features & Benefits

- 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 ADS2 signalling
- System can be changed to meet client or operational requirements
- Fully compliant with Petrobras specifications

# NASDrill RS925

## 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 analyzer 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 Transducers 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 <sup>2</sup> maxi beacons P/N 135-101-000 (position or riser angle) ADS <sup>2</sup> maxi beacons with acoustic release P/N 135-105-000 (position or riser angle) Maxi beacon configuration kit P/N 3018-0077 ADS <sup>2</sup> high power mini ROV positioning beacons P/N 129-008-000