



NASCoM Acoustic Controls and Monitoring

With an extensive track record of acoustic communication, Imenco Nautronix NASCoM provides long range, high integrity remote control and monitoring of subsea systems. The acoustic communication path is highly secure, and advanced coding technology ensures no interference from unwanted manmade or natural sources, performing well in shallow water around structures as well as deep water. Long range, multi-user, multi-asset operation is easily achievable.

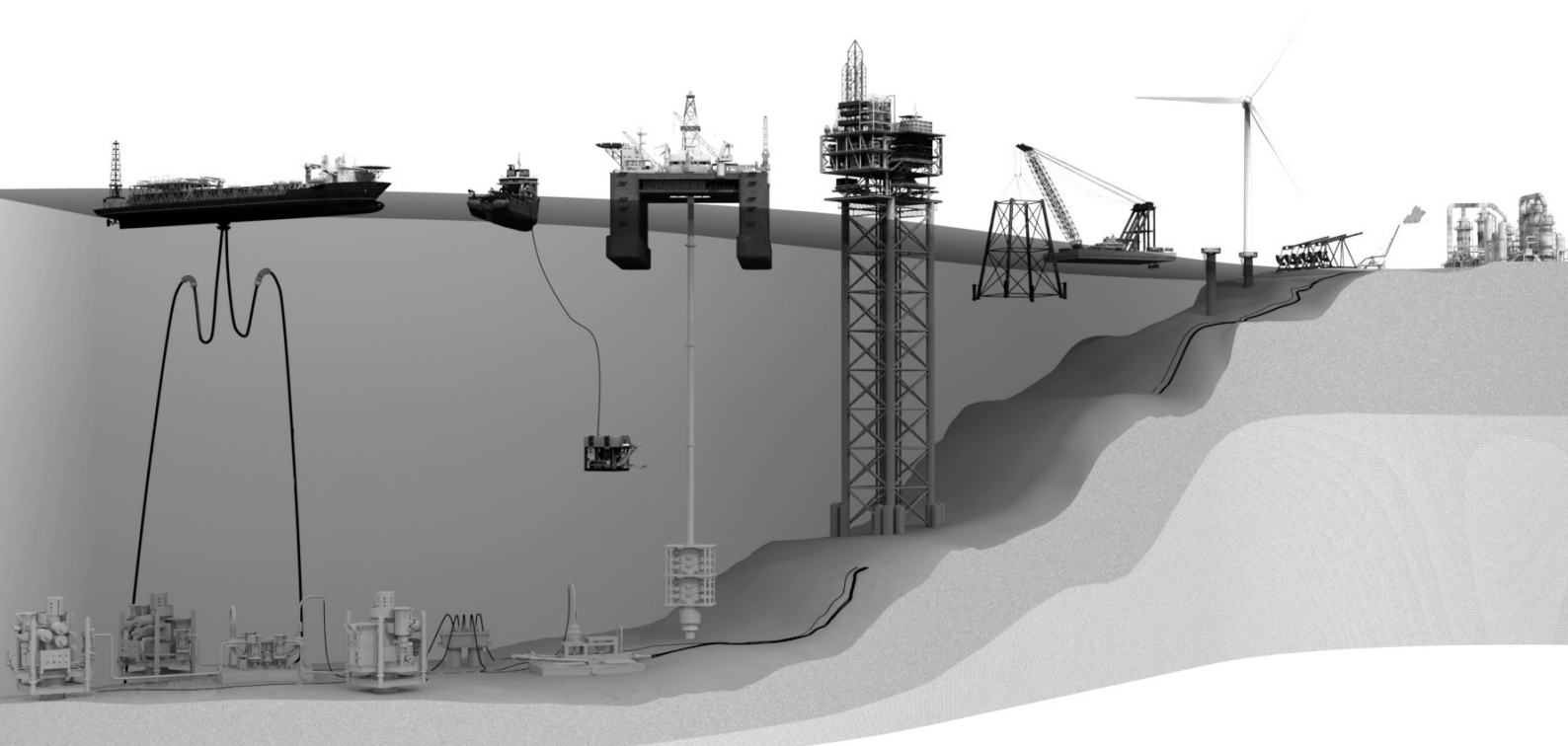
The Subsea Control Unit (SCU) includes intelligence to provide analysis of data or autonomous operation including fail to safety functionality. Systems can be supplied in standard configurations for control or monitoring, or a bespoke solution to meet your requirements.

Special features:

- Proven acoustic communication, controls and monitoring capability
- Off-the-shelf solutions for monitoring requirements or controls requirements
- Bespoke solutions combining monitoring and controls capability to meet your requirements.
- Alternative to wired communication or periodic diver/ROV intervention
- Long range allows communication with remote assets
- Communication with multiple monitoring locations from a single topside location
- Portable surface controller
- Up to ten year battery life



Technical Specification



Example Monitoring Applications

- Pressure sensors
- Flow sensors
- Temperature sensors
- Volume sensors
- Depth/orientation sensors
- Switch status

Example Controls Applications

- Remote valve control e.g. SSIV
- Subsea accumulator modules
- Chemical injection
- Remote mooring line release
- Subsea actuators

Technical Specification	
NASCoM	
Surface system	NASCoM portable unit and portable transducer 110-240 VAC supply with internal battery
Subsea system	Up to 90 subsea control units
Controls outputs	16x 24 V / 48 V @ 50W each with read-back switch input
Monitoring inputs	6x 4-20 mA, 6x RS232/422/485, 32 GB logging capability
Depth rating	PVC housing: 100 metres Aluminium housing: 3,000 metres Stainless steel housing: 4,000 metres
Range	Up to five kilometres
Battery life	Lithium battery, life dependent on operational scenarios (up to ten years)

Smart Solutions

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REV 001