



ENVIRONMENTAL SYSTEMS™

Communication Options

For the Coastal Series

Overview

The Pentair Remote Monitoring solutions provide reliable in-situ monitoring for a range of water quality, hydrographic and meteorological parameters. Transmission of the real time information is performed by:

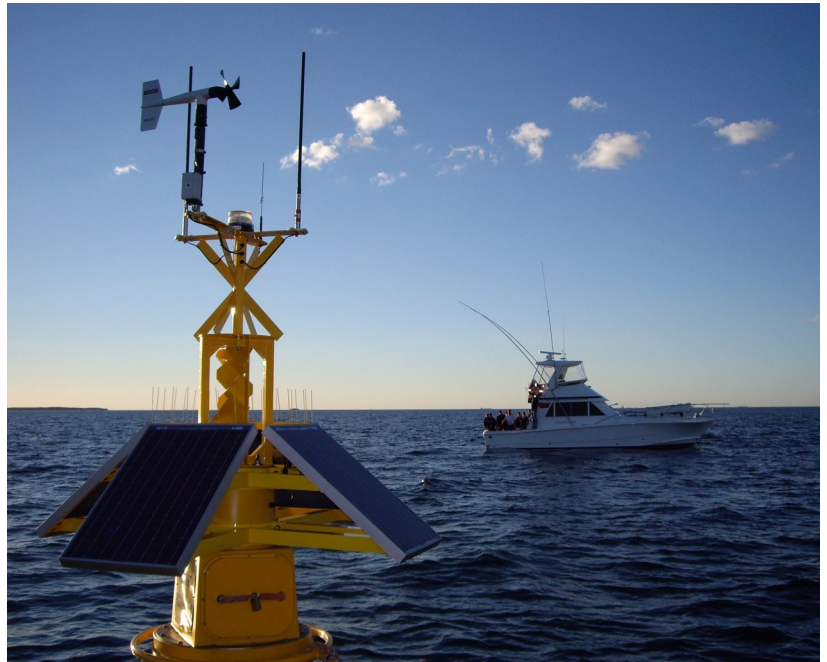
- Cellular or Radio link for near shore monitoring systems
- Automatic Identification System (AIS) transmission utilizing the AtoN (Aides to Navigation) subset, for broadcasting to:
 - Vessel Traffic Services (VTS),
 - Coast Guard or Maritime Agencies and,
 - All passing passenger and cargo vessels
- Satellite communication for off-shore systems

Communications methods can be combined to provide **higher reliability** or **additional functionality**. Typically a radio link (to a shore based SCADA) is combined with an AIS transceiver (to allow the broadcasting of measured information).

For alarm response, the system can include **SMS** and **Email** alarming, either direct from the station (for stations fitted with cellular or satellite systems) or via the Online Web SCADA option.

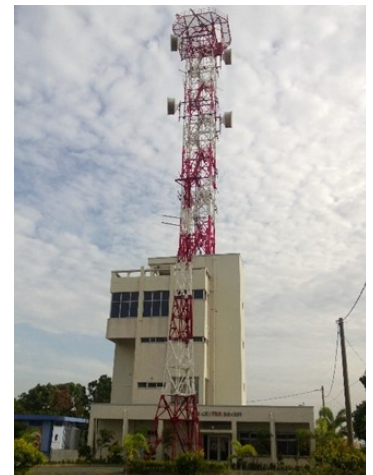
Specialist Expertise: We design innovative environmental and water monitoring solutions. Our specialist categories include Coastal Solutions, Flood Solutions, Irrigation Modernization, Hydrographic and Water Quality Monitoring, Water Infrastructure monitoring, Online Data Access (ENVAULT) and Telemetry (ENVOY).

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Pentair Buoy fitted with dual-omni directional UHF antennas for a nearby shore link to an onsite SCADA, with a redundant 3G cellular antenna for web based SCADA presentation

Receiving tower for AIS AtoN transmissions for the Indonesian VTS system in Batam



Cyrene Reef Buoy. Oil Spill detected. Crude Oil concentration 85.6ppm. Log in via www.envault.com for alarm response

