

Wave & Tide Station

Installing 2 high-accuracy stations for real-time measurement of tidal variations and wave profiles within port waters in order to increase the safety of vessel operations and avoid unnecessary closures.

The Challenge

Built in 2010, the Son Blanc port is located in the bay of Ciutadella de Menorca, an area affected by frequent winds from the west. The innovative low-rise double dock of the port was specially designed to mitigate the visual impact in a zone of great environmental and scenic value, but makes it necessary for vessels to exercise extreme caution during wind storms.

For this project, the customer requested a complete ocean-meteorological solution to support their decisionmaking process with highly accurate and reliable data.

The Solution

The implemented solution consists of 2 high-accuracy wave and tide stations installed on the east and west docks, each featuring a programmable radar sensor. The stations collect data and send them wirelessly to the port control center for remote monitoring through a fully customized platform developed by Weathercloud.

The platform displays data from the 2 wave and tide stations and 3 additional weather stations on a real-time monitoring panel, which also provides detailed weather forecasting, wave prediction and safety warnings.



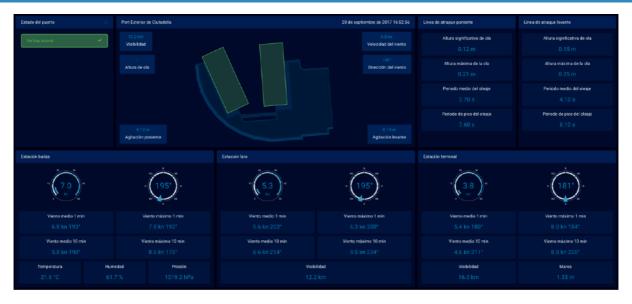




Case Study

)9/20/2017 Rev.

weather**cloud**



Weathercloud meteOS is a real-time monitoring platform that can be fully customized to the exact specifications of each project.

Overview

Weathercloud meteOS flexibility allows integrating data from a wide range of sensors regardless of the protocol required. The platform provides real-time remote monitoring, historical database management, custom plots creation, advanced alarms setting with configurable actions, third-party APIs integration, user role administration, and much more.

Features

- Fully customizable and expandable platform.
- Wide range of compatible sensors and protocols.
- Clean and stylish browser-based user interface.
- Responsive design for easy mobile monitoring.
- Automatic data transfer to FTP server and email.
- Quick data export to different formats.
- User role administration and access control.

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