

SAFE PORT System

SAFE PORT is a system that integrates the most advanced technologies of oceanographic and meteorological instrumentation, and telecommunications, to constitute an invaluable tool for Managers of ports, Port Authorities, and all potential users of the port facilities, ships of all kinds, fishing, yachts, pleasure boats, etc..

It is therefore, a very efficient source of general information for all users of the Port, offering meteorological and oceanographic data in real time, and even, optionally, localizing forecasts and images with a direct and "universal" access from any computer or PDA through the INTERNET.



FEATURES

Measurement Parameters

Safe Port System enables measurement and dissemination of the following parameters in real time:

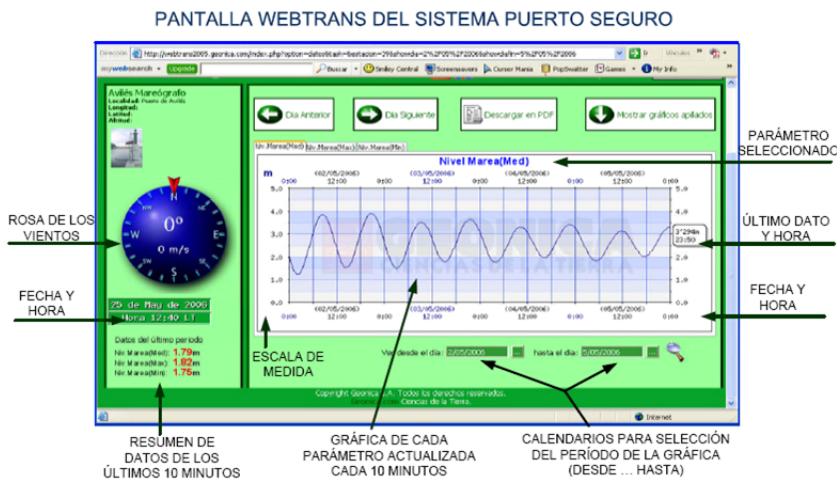
- METEOROLOGY: Speed and wind direction, temperature and relative humidity, atmospheric pressure, rain, visibility, solar radiation, etc.
- COASTAL AND PORT HYDRODYNAMICS : Height of tide, currents, scalar waves, directional waves, rough water, etc.
- WATER QUALITY: Detection of hydrocarbons, measurement of the conductivity, temperature, turbidity, etc.

SAFE PORT Accessories

In addition to all environmental sensors, the Safe Port remote stations for measurement allow:

- WEBCAM connection, properly oriented to collect colour images of the areas of interest.
- Connecting infrared thermal camera for thermal imaging under any lighting condition, day or night, to cover and monitor certain particularly sensitive areas of the harbour.
- PTMS System (Port Traffic Monitoring System).
- VTS system integration, and VTMIS.
- Information panels.
- Presentation of data and images on the Internet (WEBTRANS).

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Presentation of all data and images through WEBTRANS platform.

PTMS System (Port Traffic Monitoring System)

The PTMS System is based on a Doppler radar device mounted on one side of the port entrance, overlooking the area of transit of the vessels. When a ship with a determinate size cross the area covered by the radar beam, the device detects its presence, determining in addition:

- The number of ships entering the port.
- The number of boats leaving the port.
- The navigation speed in one direction or another.

The PTMS System can be extended with the shot of thermographic images of the vessels entering or leaving the port, both by day and night, and under any lighting condition. The RADAR device itself, and alternatively a laser detector generates an electronic command to activate the shot of the image when the boat is crossing. This image, together with details of its speed and direction of navigation (incoming or outgoing traffic) are transmitted in real time through radio, fibre optics, GPRS, etc., to the computer of the Port Authority.

Variable Informative Panels (PIV)

The Safe Port system also allows the integration of Variable Information Panels (PIV) in some strategic areas of the port, to display text messages, graphics or pictograms, with meteorological data and tide information, waves, visibility, etc., that could be of interest for the boats entering or leaving the port.

