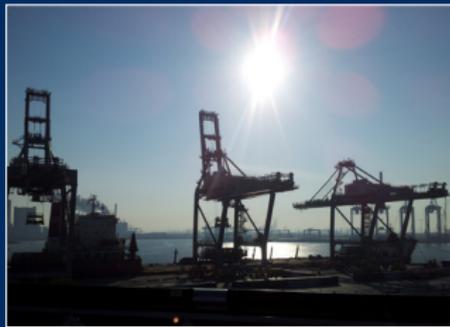


Harbours & Terminals



OBSERVATOR

group



MISSION

We are Observator. We believe in taking the extra step and exceeding your expectations. Retaining our competitive edge, through innovation and uncompromised support, is the key to your success.

Observator: solutions beyond expectations!

The Observator Group

Founded in 1924 Observator maintains to be trend-setting in a variety of industries. With offices in The Netherlands, Germany, Australia, Greece, Singapore, Belgium and United Kingdom and with a world-wide network of highly trained resellers, we support our customers to the maximum.

Our electronic and software development centers are based nearby Rotterdam and Melbourne while mechanical developments are performed by our fine mechanical department in Amsterdam.

The main focus of the group lies in the interesting field of meteorological & hydrological monitoring solutions. Observator is a company where the highest quality standards are met for our products, organization and employees.

Some of our markets

Observator serves a variety of markets with its Meteorological and Hydrological solutions. It's not a coincidence that the Marine and Offshore markets are the ones Observator feels at home. Observator was founded in 1924 by a group of ship-owners in the harbour town Rotterdam.

However, other markets close to Marine and Offshore, are considered to be ours as well: Dredging, Harbours and container terminals. 'Where weather meets water' is the place Observator can be found. Also other high demanding markets such as Avionics and Renewable energy often use the Observator know-how.



Marine

Our home market from origin! This is one of the toughest markets to be in. The exposed sensors have to withstand harsh conditions, including sea spray and vibrations. The 24/7 operation requires world-wide fast service and deliveries from stock. Products have to comply with specific requirements and changing standards.



Offshore

It is well known that the weather plays a critical role in the marine and offshore industries. From platforms to FPSO's, from drill vessels to OSV's and from DSV's to heavy lift operations, accurate measurement of the weather and sea state contribute to increased safety and efficiency.



Avionics

With experience on the highest level of quality and knowledge on most meteorological parameters, we are often consulted on airport meteorological systems. Add to this our network knowledge; our new multifunctional TFT display; and our software, it is quite obvious that the airport market is a growing one for us.

Harbours & Terminals



Harbours & Terminals

Activities in and around harbours are susceptible to weather conditions. Not only the wind is a critical factor, especially for crane operations and stacking containers, but conditions such as visibility, temperature, precipitation, along with the hydrological factors are also important in the facility operational management. Port authorities and most container terminals are required to receive location-specific weather forecasts. To increase the reliability, these forecasts are supplemented with real-time data measured on location. Observator has extensive experience in designing, installing and maintaining of monitoring stations in harbours and terminals. In addition to meteorological knowledge, Observator also supplies sensors for the determination of water-related parameters, such as wave, current and water quality.

Observator has installed many stations to measure wind, temperature, humidity, visibility, precipitation and even the road conditions in terminals. Usually the existing LAN-network can be used for data distribution, allowing the actual weather conditions to be viewed at several locations. Wind displays can be installed in the cranes, driven by LAN or by radio link, to provide instantaneous weather information to the operator.

For displaying the collected data, our software OMC-Data-Online is used and can be equipped with a web server for data distribution through the internet. The software may further be provided with a Modbus server in order to share the data with PLC's which can be used for the generation of alarms and control of latches.

Some of our references



REFERENCES

Completed harbours and terminals projects

2006

2007

2008

2009

2010

2011

2012

2013

2014

2015

Ask for our comprehensive reference list



Wind speed and direction sensors

This sensor is a combined wind speed and direction sensor, based on the cup and vane principle. The sensor has a long life time, high reliability and accuracy.



Ultrasonic wind sensors

This is an ultrasonic wind sensor, which can be used in case an open path ultrasonic wind sensor is required. It can be connected to all Observer equipment.

Our Sensors

Observer offers a wide range of meteorological and hydrological sensors & systems. Several sensors are developed and manufactured in-house, while others are selected from respected manufacturers offering the highest quality. Reliability, accuracy and fitness for the hardest environmental circumstances are the main criteria for the Observer sensors. The range consists of wind, temperature, humidity, barometric pressure, cloud base, visibility & present weather, precipitation, water quality, water level, wave and finally road condition sensors. These sensors are complemented with data loggers, telemetry solutions, data buoys and software.

Basic meteorological sensors such as wind speed and direction, temperature, humidity, barometric pressure are available in intrinsically safe versions as well. Obviously with corresponding ATEX and IECEx certificates.

Temperature / Humidity sensors

The air temperature and humidity sensor provides accurate and precise measurements of temperature and humidity. The ideal housing is the OMC-422 with its double louvered radiation screen.



Barometric pressure sensors

The most cost-effective and high precision barometric sensor, strongly recommended to be placed inside, near, or in a signal conditioning unit with ventilation to the outside air using a pressure head.





Hydrological sensors

Measurement of waves, current, tide and water quality are of significant importance for all work in and around harbours. Observer offers individual hydrological probes and sensors along with complete integrated systems with many options for power and telemetry.



Visibility and present weather sensors

This compact and robust instrument, measures visibility and present weather. The sensor has proven to be accurate, reliable and the readings have a high rate of repeatability. The high grade housing is suitable for use in harbours & terminals.

Current and wave sensors

These sensors can be installed under water on a wall or on the bottom of the harbour looking up. The sensors can measure wave and 3 dimensional current. Using these parameters it is possible to advise incoming ships on the current and waves they can expect in the harbour.



Road condition sensors

The road condition sensors collect weather information such as road temperature, dew point, water film height, but also the road conditions (humidity, snow, ice and frost) and grip (friction) as well as other environmental data.





Screenshot OMC-Data-Online Software

Software & Displays

If data storage, management and presentation is required within a LAN network or a local PC, our software OMC-Data-Online has proven to be a perfect tool to use. The software allows you to collect data from all your monitoring sites into a single open data base. Many organizations, involved in harbours, marine engineering, offshore or dredging, use this software to monitor the data from all the measurement stations and combine all the data into a single overview.

Information ranging from the raw measurement data to the most sophisticated reports and graphical representations can be viewed and downloaded by all users who have access. It is also possible to perform calculations on the data, test for alarm conditions and directly control and analyze all the measurement data.

Observer is known for its wide range of dedicated displays. The range has been augmented with the OMC-140 multifunctional TFT display.

OMC-140 Multifunctional TFT Display

On an 8.5" (long-life; low powered) LED backlight industrial grade LCD screen, your data will be indicated with a true viewing angle of 170°. Due to its modular design, the OMC-140 can also act as an intelligent signal converter. The unit is provided with a memory card slot, allowing the OMC-140 to be used as a basic data logger.



Resellers & Agents

We believe in being present on location. Thanks to our world-wide network of resellers, we know the local players and competitors and we can offer the best possible sales and after sales services.

The resellers are backed-up by the first-class Observator service team. On a regular basis, Observator organizes resellers meetings and technical training sessions worldwide. Please visit our website (www.observator.com) to find our local resellers.



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