OBSERVATOR
group

Offshore

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 wide variety of industries. With offices in The Netherlands, Germany, United Kingdom, Greece, Singapore and Australia and with a world-wide network of highly trained resellers, we are able to 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, along with process monitoring and air technology. While marine window wipers and sunscreens complete the product portfolio.

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.

MARKETS

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.

Harbours

Where 'weather meets water' our equipment and systems can be found. Most of the terminals in the harbour of Rotterdam and most Dutch harbour authorities are equipped with our solutions. Besides basic meteorological equipment, sensors for visibility, wave, current as well as road conditions can be found as well.

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.

Offshore

Having 90 years of experience in maritime operations, we know weather plays a critical role in the offshore industry. From platforms to FPSO's, from drill vessels to OSV's and from DSV's to heavy lift operations, accurate measurement of weather and sea state circumstances contribute to increase safety and efficiency.

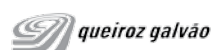
Besides accuracy of the sensors, we realize that the quality of these sensors is very important, especially in these hard environmental circumstances. We will never make concessions to the quality of our meteorological and hydrological sensors.

Fortunately we are still able to offer competitively priced and flexible systems since the Observator software system (OMC-Data-OnLine) used in other markets as well and our dedicated displays are our own design.

Besides the supply of instruments and systems, we are able to offer turn-key solutions, commissioning/site acceptance and yearly maintenance as well.

OFFSHORE

Some of our references



Ask for our comprehensive offshore reference list

REFERENCES

Completed offshore projects

2008	2009	2010	2011	2012	2013	2014	2015	2016	2017

OIC-406 Temperature & Humidity Node

The OIC-406 is MeteoLink's Temperature & Humidity Basic Node and includes a field replaceable heated probe mounted within a double louvered radiation shield. The unit includes two additional NMEA inputs and is provided with a combined NMEA output.

OIC-604 Global Solar Radiation Node

The OIC-604 is MeteoLink's Global Solar Radiation Basic Node and is provided with a field replaceable pyranometer conforming to ISO 9060. The unit includes two additional NMEA inputs and is provided with a combined NMEA output.

MeteoLink: integration has never been easier

MeteoLink is a new concept for the interconnection of meteorological, hydrological and other market-specific sensors. In order to achieve optimal measurement performance each sensor requires its own specific installation location, as recommended by organizations such as the WMO and the CAA. MeteoLink provides the opportunity to be compliant with these installation recommendations while offering the flexibility to connect each sensor through the same link.

The output of each link is an NMEA standard signal providing all sensor measurement data and status, such as type, serial number and runtime. A link may be built-up by several Basic Nodes and terminates with a Smart Node. MeteoLink offers several preconfigured sensor-nodes, these are commonly used meteorological sensors with a built-in Basic Node and come complete with market standard mounting devices.

OIC-50X Barometric Smart-Node

The Barometric Smart Nodes comes in several variants. The OIC-504 has the highest accuracy, 0.1 hPa, while the OIC-506 is the most attractive priced. Between these two is the OIC-505.

OIC-2020 HMS 2.0

The OIC-2020 is a 19” 3 HE compact unit containing an industrial IEC60945 approved PC, two accurate barometric pressure sensors and all the required I/O to be a central unit for any Met Ocean system. The unit complies with the latest CAP437, BSL D 5-1 and NORMAN requirements. The unit has three MeteoLink inputs and includes serial and TCP/IP sensor specific inputs and is provided with a variety of outputs.

OMC-141 ATIS System

The OMC-141 Automatic Terminal Information Service (ATIS) is a continuous broadcast of recorded noncontrol weather information for unmanned offshore or wind energy platforms. A standard VHF link may be used to receive spoken METAR messages. The same link may be used to control the helideck and redundant corridor lights. The unit is based on the standard Jotron TR810.

OMC-141 ATIS System & OIC-2020 HMS 2.0

OMC-160 wind speed and direction sensor

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.

OMC-118 ultrasonic wind sensor

This sensor 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 Observator equipment.

Wind measurement

Observator offers a wide range of wind sensors (anemometers). All of which are provided with NMEA outputs and are therefore easy to integrate within MeteoLink. Power for the wind sensors can be supplied from MeteoLink, except where the higher power demanded by heated sensors is required. The Observator wind sensors are also available as intrinsically safe variants, with corresponding ATEX and IECEx certification.

Cloud base, visibility and present weather

Observator is proud to use two of the industry leading suppliers for cloud base measurement and visibility & present weather sensors. True ‘fit & forget’ high accuracy measuring devices. As these sensors are usually installed close together a st.st. box containing a MeteoLink Basic Node and PSU for the sensors can be used to save on cabling and integrate these sensors into MeteoLink.

Visibility and present weather sensors

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

CBME80 cloud base sensor

This sensor is a stand-alone instruments, designed for fixed and mobile installations, where accurate and reliable cloud height information is required. The design is based on the LIDAR principle.

Other third parties sensors

The BTD350 is a standalone Thunderstorm Detector based on electrostatic principle. It detects cloud-to-cloud and cloud-to-ground flashes in an 83 km range as well as charged atmosphere and charged precipitation. It allows the sensor to warn of overhead lighting risk before the first discharge occurs.

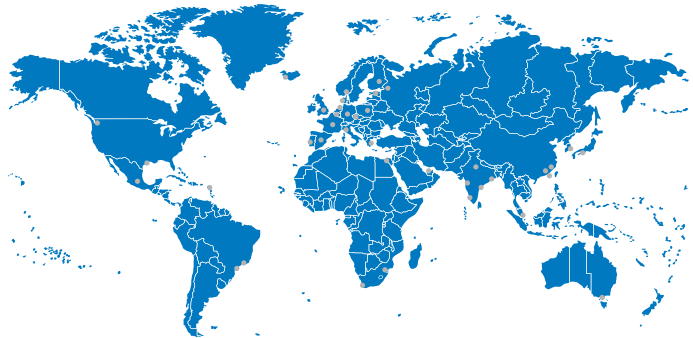
BTD350

The RMU-OMC-1 is used to measure helideck movements, such as pitch, roll, heave, surge, sway, yaw, acceleration, helideck heave, helideck inclination, heave rate, trim and list.

RMU-OMC-1

Resellers & Agents

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



Indication examples

Screenshot OMC-DOL-HMS software

OMC-140 Multifunctional TFT Display

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