EOS 1000MR

Weather Wise.

- Complete marine weather observation system.
- Built to withstand the harsh conditions experienced by ocean-going vessels.
- Calculates true wind speed and direction using navigation data from the ship's onboard GPS and compass.

EOS WEATHER INSTRUMENTS

EOSweather.ca

EOS1000MR

The EOS-1000MR is a complete marine weather observation system providing accurate, real-time environmental data to commercial mariners.

Our system is built to withstand the harsh conditions experienced by ocean-going vessels. This complete weather station will obtain data from all the EOS sensors as well as the vessel's navigation data from the ship's onboard GPS and compass. Using the vessel's speed and direction, EOS will calculate the true wind speed and direction. Data will be displayed on a dedicated dimmable marine monitor as well as the small DU-600 display. For onshore monitoring, the data will also be available through the EOS cloud.

FEATURES

- Compact and modular hardware
- High grade stainless steel and ABS composite hardware
- Direct connection to Shipboard Navigation sensors
- Dedicated marine display for own weather data as well as other ships
- Dedicated wind display for own wind data

POWER OPTIONS:

- AC/DC Passive PoE

COMMUNICATIONS:

- Ethernet

NMEA-COM

- This is a module designed for the EOS-1000MR
- Can be used on any Windows or Linux based computer with a regular USB port
- Features four RS484 / RS422 serial input ports as well as two serial output ports that are connected to a computer through one serial USB port.
- Ports are compliant with the NMEA 0183 / IEC 61162 specification and are all isolated, making them suitable for use with regular computers on board of ships.
- Isolation circuits prevent ground faults

ON BOARD SENSORS

WU250

Our standard wind speed and direction unit.

TPU50

This standard module provides temperature, humidity, and pressure readings.

RU11

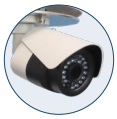
Optical rain sensor that senses water hitting the outside surface.

SU40

Our solar module measures solar luminosity and radiation levels.

DU600

Our dedicated, highly visible Marine display to show current and average wind speed.



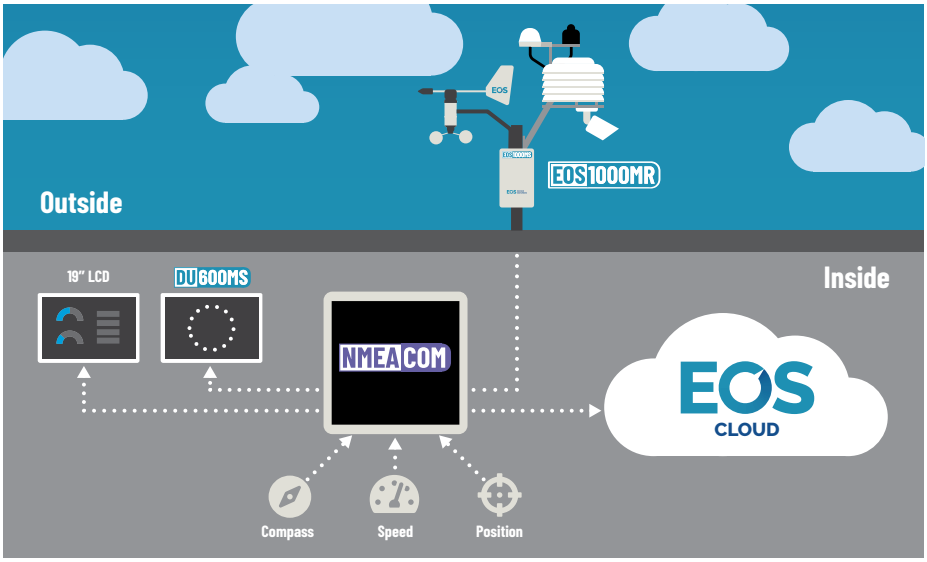
CAMERA

A camera that provides real time visual reference and discourages vandalism or unauthorized tampering.

OPTIONAL SENSORS

WU350

Our digital high precision ultrasonic wind speed and direction sensor.



SU50

The SU50 has the added capability to collect UV-A (240nm~ 370nm) data.

EL10

Our lightning detection sensor.

EOS WEATHER INSTRUMENTS

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EOS1000

Weather Wise.

- Instant, accurate weather data.
- Cloud-based interface for desktop and mobile access.
- True IoT integration.
- Localized frost warnings.
- Archived historical data via optional EOS Cloud.

EOS WEATHER INSTRUMENTS

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EOS1000

The EOS-1000 is an advanced all-in-one weather station, which collects and remotely displays environmental data from multiple high precision sensors.

An on-board Linux-based processor stores data, which can be viewed online or uploaded to a remote customer database. Optionally, we offer data storage and viewing via our secure EOS Cloud.

All external components are made from the highest quality UV-stabilized ABS, high-grade aluminum, and stainless steel. The optional LTE cellular interface allows users to collect data from remote locations such as agricultural sites, highways, energy sites (re-usable) or any other site which lacks a reliable internet connection.

Built-in sensors monitor the health of EOS-1000 to display battery condition and internal temperature. The unit has a tamper alarm to provide an alert when the housing has been accessed.

A high resolution all-weather webcam can be added for visual reference of weather conditions and other useful images from the site.

Our modular concept provides the ability to create a system that meets the customers requirements. Data from multiple sensors are connected to the DCU unit. The data from these sensors will be uploaded in real time to the EOS cloud and will also be stored in a local database as well as a local backup

In addition to environmental data, the EOS system collects data such as battery voltage, door status (tamper contact), and internal temperature. Several spare analog channels can be used for non standard, or customer supplied sensors.

Inside the EOS1000 housing is a small LCD display. This display provides all vital information that might be needed to set up the station or obtain data to troubleshoot when no computer is present. Inside the same housing there is a small lithium battery to provide power for three hours in case of a power failure.

The SD slot contains the card with the Linux operating system. This allows a quick and easy swap out for upgrades and trobleshooting. The USB connection is used for the backup storage device. All data is backup on this USB mass storage. Ample space is available to add additional modules such as a camera module and a 3G/4G modem.

With many power and communication options, the EOS stations can be installed at multiple locations.

COMMERCIAL SERIES

EOS1000CR — The EOS-1000CR is the ideal system to reliably monitor rapidly changing road conditions.

EOS1000CE — The EOS-1000CE was designed for use at seasonal recreational operations.

EOS1000CA — The EOS-1000CA has all the sensors needed for building automation. Connects directly to a BACnet data network.

AGRICULTURE SERIES

EOS1000AW — This agricultural sensor suits monitors environmental changes for wet climate crops, including timely frost warnings.

EOS1000AD — Climate change and evolving weather patterns create more uncertainty for dry climate crops. This suite with the ESOIL-100 provides all the info for farmers to make the right decision on when to spray.

EOS1000AA — With compact size and durable hardware, the EOS-1000AA is ideal for the punishing coastal environments found in aquaculture applications.

ESOIL100 — The ESOIL-100's advanced wireless soil moisture sensor allows for real time soil monitoring.

MARINE SERIES

EOS1000MR — The EOS-1000MR is a complete marine weather observation system providing accurate, real-time environmental data to commercial mariners.

EOS1000MS — Our shore-based EOS-1000MS is ideal for coastal wind and tidal monitoring.

EOS600MR — Our EOS-600 wind anemometer is made from high grade stainless steel and composite acetal, and ensures reliable and accurate readings for both wind speed and direction.

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