



OMC-7012 data buoy, typical configuration

## Datasheet

# OMC-7012 Data-Buoy

The OMC-7012 data-buoy is specifically designed for the measurement of meteorological and hydrological parameters in lakes, rivers, estuaries and coastal zones. It is the bigger brother of the popular OMC-7006. Both buoys are intensively used for environmental monitoring. Many dredging companies use them for monitoring the impact of their dredging activities. The OMC-7012 is bigger than the OMC-7006 and is able to support meteorological sensors as well as hydrological sensors. Also, the OMC-7012 can carry more weight, supply more power to the sensors, and can operate in rougher conditions than the OMC-7006. The OMC-7012 is equipped with the OMC-045-III data logger, which has proven itself in the OMC-7006. This logger contains integrated GPS and GPRS/3G/4G, and can be interfaced to radio and satellite modems.

The electronics canister can be easily removed for maintenance, without taking the buoy out of the water. The same applies to the hydrological sensors, which can slide up and down a protective cage.

### Features

- Integrated data logger with:
  - GPS and GPRS/3G/4G (data communication via the mobile phone network).
  - SMS alarm function on all parameters.
  - Event controlled logging interval.
  - Optional radio or satellite modems.
  - Easy to use configuration software.
- Solar powered, various panel and battery options.
- Programmable signal light.
- External Marine GPRS and GPS antennas.
- Supports a large range of hydrological sensors, including YSI and Analite turbidity sensors.
- Easy access to sensors and electronics without removing the buoy from the water.
- Seamless interface to our advanced OMC-DataOnline data management and presentation software.

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## Your benefit

The OMC-7012 is a well-proven and complete measurement station. The water quality and meteorological sensors are integrated by Observator on your specification. This allows for maximum flexibility in the parameters to be measured. The buoy itself, with the solar panels, the batteries, the logger with GPRS/3G/4G and GPS, the signal light and the antenna's, is a standard product with several options.

## Optional

- Additional batteries. Standard 2 times 12 Volt, 12 Ah.
- Additional solar panels. Standard 2 times 20 Wp.
- Mooring set.
- Radio or Satellite communication module.
- Extended deployment tube. The standard tube ends above the ballast weights.
- Radar reflector.
- AIS transmitter.

## More information

Contact Observator to specify your requirements and to get a quotation.

Separate data sheets are available from the Observator website:

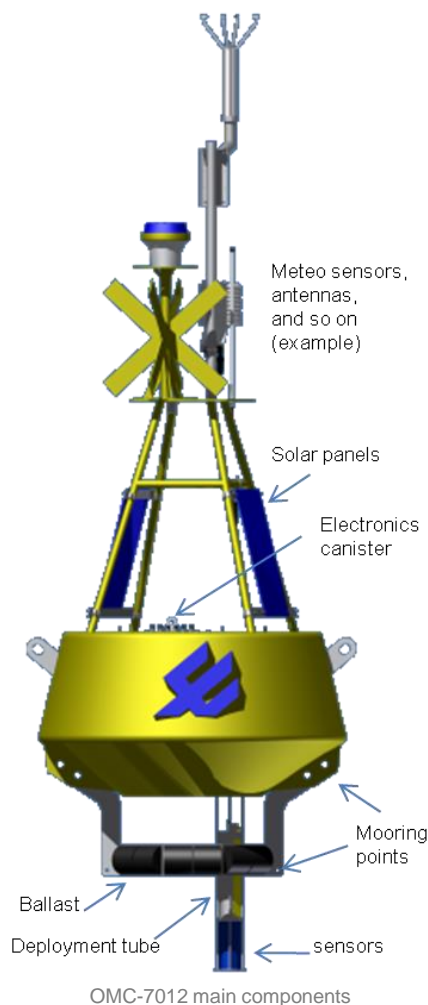
- OMC-7006 data buoy.
- OMC-048.
- OMC-DOL data processing and presentation SW.
- Water quality sensors.



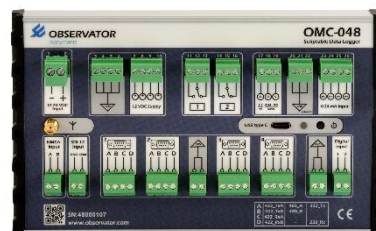
Pressure test of the canister with electronics and battery

## Dimensions

- Diameter 120 cm.
- Height above water 170 cm, excluding meteo sensors.
- Total weight in air: 175 kg, excluding sensors.



OMC-7012 main components



OMC-048 scriptable data logger

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oriented company with a worldwide distribution network and offices in Australia, Germany, the Netherlands, Singapore and the United Kingdom.

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