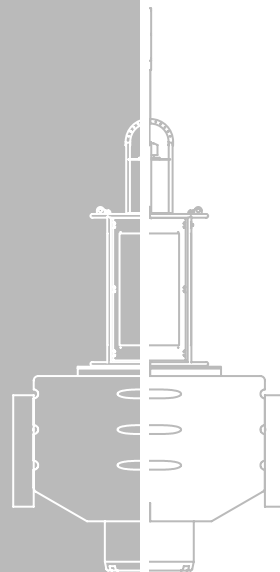


## DATA BUOY 01

### APPLICATION

Collection of environmental data at sea or in coastal sea areas such as e.g. B. in the Baltic Sea, North Sea or in ports



**Self-sufficient data buoys equipped with various sensors and probes are an important tool for exploring coastal sea areas or in ports. The data buoy 01 has a very robust but light structure made of UV-resistant polyethylene and seawater-resistant chromium-nickel steel, which can be adapted to a wide variety of requirements and purposes. The brackets for installing different measuring devices is therefore an excellent basis for the reliable and precise collection of meteorological and oceanographic data.**

The data obtained is synchronized in real time with the onshore operator terminal by the data management system SmartGuard and StormLogger. This allows for fast and efficient monitoring and analysis of the data needed to optimize operations and keep the facility safe. The data management system has high reliability and a user-friendly interface that allows for easy handling. All this with a very low total cost of ownership. The highly energy-efficient system structure of the data buoy also enables long periods of operation in the sea area.

### OPTIONAL PROBES

- EXO
- Seagurad



## OPTIONAL SENSORS

- Conductivity
- Oxygen
- Temperature check
- PH
- Turbidity
- Algae etc.

## TECHNICAL SPECIFICATIONS

Construction	Rotationally moulded from UV-resistant, untreated medium-density polyethylene, 9.5 mm thick, with a superstructure of stainless steel 1.4571, powder-coated to DIN: 55633, 12944, corrosivity category C5
Foam filling	16 kg / m <sup>3</sup> expanded polystyrene foam
IALA	Built to comply with existing IALA recommendations
Weight	600 – 650 kg
Max mooring weight	2100 kg
Submergence	24.7 kg / cm
Operating voltage	12 V <sub>DC</sub>
Input voltage	600 Wp
Storage technology	LiFePO <sub>4</sub>
Storage capacity	200-800 Ah (20 HR, 12 V, 25 °C)
Operating temperature range	-20 – +45 °C



The entire structure is made of seawater-resistant chrome-nickel steel which is powder-coated in RAL 1023 after the highest protection period.



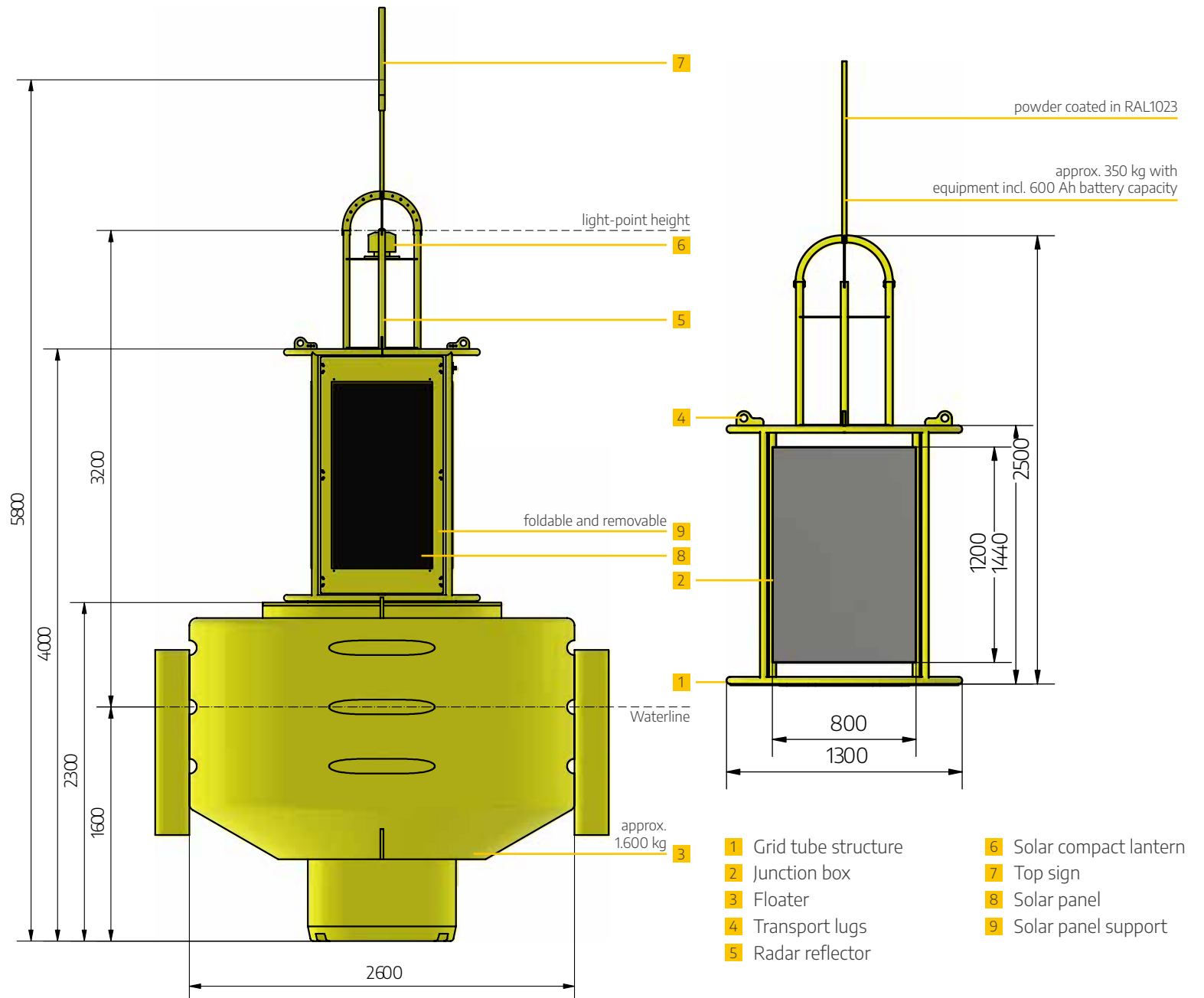
Thanks to the locking of the doors, it is possible to work on the system even when there are waves.



The facility is secured against unauthorised access.



Datentonne  
01





Ease of maintenance thanks to large hatches.



The expandable battery rack ensures uninterrupted operation with different configurations.



The large float ensures safe floating behaviour even in rough conditions.