

## Baltic Sea Measurement Station – Oderbank - discus buoy

54° 4.6' N, 14° 9.6' E ;in operation since May 1996

### Data Telemetry

- 5G-LTE-Industry-Router
- 2 SIM-Cards, roaming
- GPS
- WLAN
- Ethernet-Switch
- 5,5 Watt max.

### Meteorology

- Wind direction
- Wind speed
- Air temperature
- Humidity
- Air pressure
- Global radiation

### Housekeeping

- Battery voltage
- Charge current - solar
- Charge current - wind
- Inclination
- Compass
- Discharge current
- Acoustic transmission

### Data processing

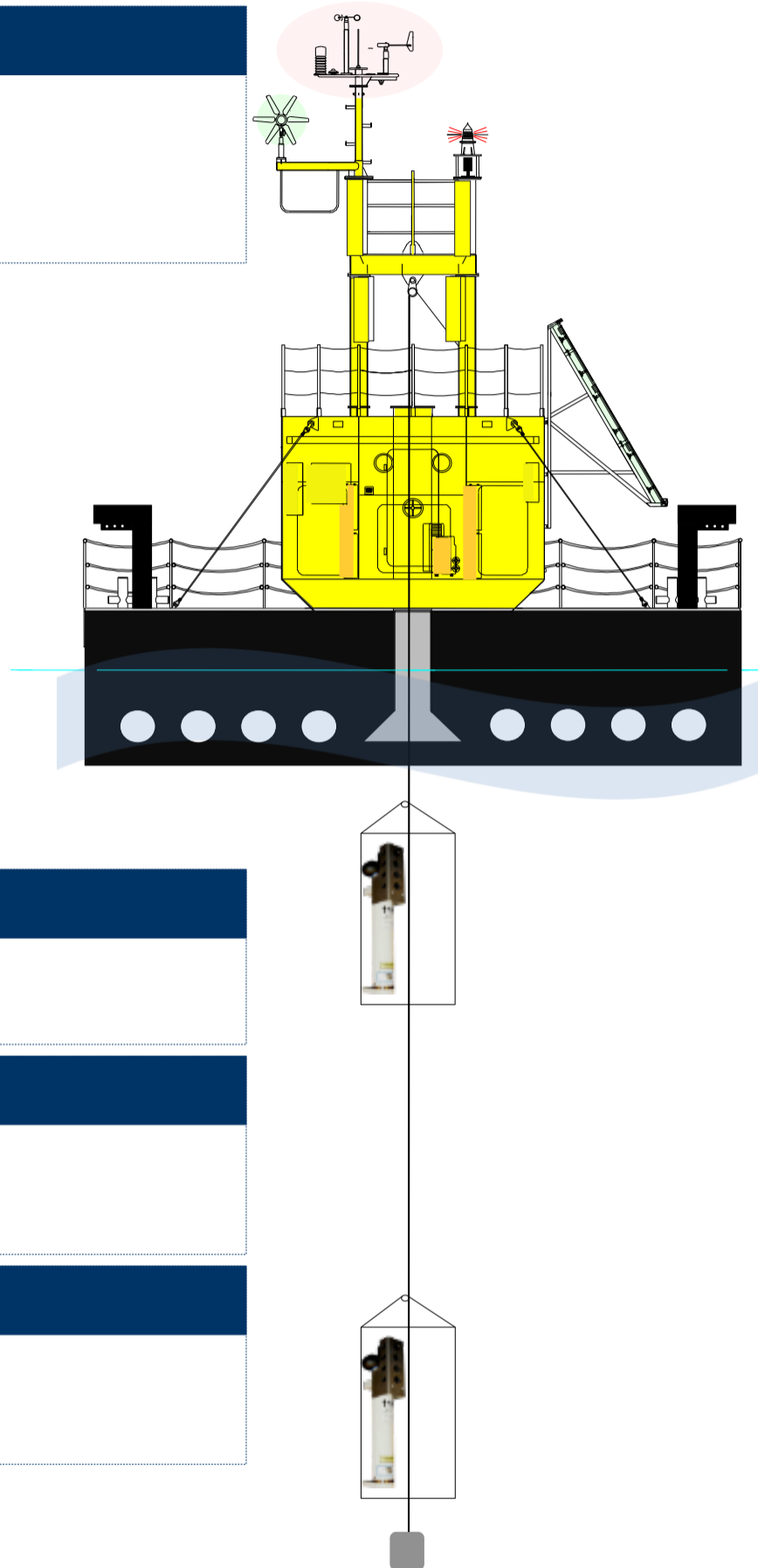
- Windows-Industrial-PC
- Intel Pentium CPU
- 4 GB RAM
- 128 GB SSD
- 6 RS232/485 Ports
- 4 USB Ports

### 3m

- Temperature
- Conductivity
- Oxygen
- Chlorophyll a
- Turbidity

### 12m

- Temperature
- Conductivity
- Oxygen
- Chlorophyll a
- Turbidity



### Energy Source 1

- 2 pcs. Wind turbine
- 24 V
- 500 Watt Power

### Energy Source 2

- photovoltaics
- 8 modules
- 24 V
- 800 Watt Power

### Energy storage

- Lithium LiFePO4
- Maintenance free
- 24 V
- 1000 Ah

## INFORMATION

The IOW-MARNET stations are financed by BSH. They transmit data every hour directly to BSH and via the Internet to the Network data base at IOW. All MARNET stations contribute to the Global Ocean Observing System (GOOS / BOOS)



- May 1996 installed
- hauled in when there is sea ice

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