



ENVIRONMENTAL &  
SAFETY SYSTEMS

DMZ-1 AIS ENVIRONMENTAL  
MONITORING SYSTEM

# DESCRIPTION

DMZ-1 is an easy to install system that can continuously measure in real time meteorological and hydrological conditions that seriously affect safe passage and then transmit them through Automatic Identification System (AIS) channels.

Parameters like wind speed and direction, current measurements, wave characteristics, and other variables are all packaged in an internationally standardized AIS message 8, 12 and/or 14 to approaching vessels and authorities nearby.



# SUITE AND DATA

DMZ-1 System can compile data from different sensors regardless of brand and send the information to an appropriate Automatic Identification System (AIS) modem using AIS message 8, 12, and/or 14 depending on what your site needs.

Here are some examples of the vast array of sensors and data points DMZ-1 can deliver over AIS.

## WAVE

- Height
- Period
- Direction

## CURRENTS

- Surface Current Speed and Direction
- Current Profile

## WATER QUALITY

- Dissolved Oxygen
- Conductivity
- Temperature
- Hydrocarbon spills

## METEOROLOGY

- Wind
- Atmospheric Pressure
- Air Temperature



# USES



SMART BRIDGE

- Air Gap
- Current
- Depth



INLAND WATERWAYS

- Wind
- Current



PORTS AND HARBORS

- Waves
- Wind
- Current
- Depth





# APPLICATIONS

## **Ports:**

Safe navigation, weather, waves and current

## **Wind farms:**

Wave and current studies

## **Aquaculture:**

Site selection, water quality

## **Oil and gas:**

Met ocean characteristics, water quality, hydrocarbon spills

## **Dredging:**

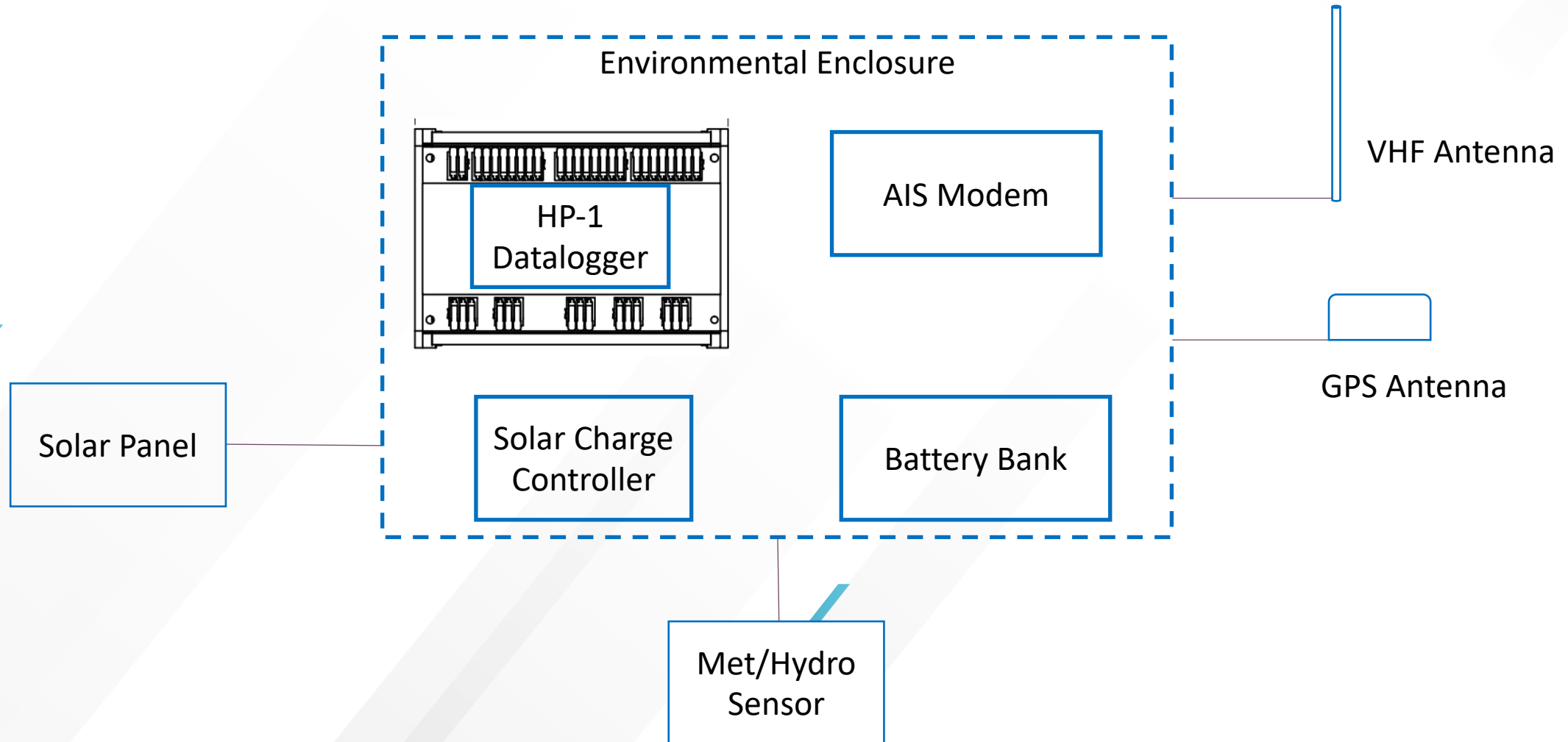
Turbidity, dissolved oxygen

## **Inland waterways:**

Safe passage, bridges and locks



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