DMZ

ENVIRONMENTAL & SAFETY SYSTEMS

DMZ-2 SENSOR INTEGRATION SYSTEM

DESCRIPTION

DMZ-2 is a highly customizable system that can continuously measure in real time meteorological and hydrological conditions on site and transmit the data over satellite, VHF, or GSM communications. Parameters like wind speed and direction, current measurements, wave characteristics, and other variables are all processed within the highly capable HP-1 datalogger and then broadcasted over your preferred method of telemetry.

This product can be delivered as a simple "box" with all the intelligence for you to integrate your own sensors from any manufacturer, or let DMZ do the integration for you. We guarantee you will receive your data no matter how remote your site.

PLATFORMS AND DATA

DMZ-2 System can compile data from different sensors regardless of brand and send the information through your preferred telemetry method.

Our strategic partnership with Floatex, a world leading manufacturer of floating aids, allows us to add sensors and DMZ-2 System to a wide array of floating devices, as well as any other on-land installation.

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

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,
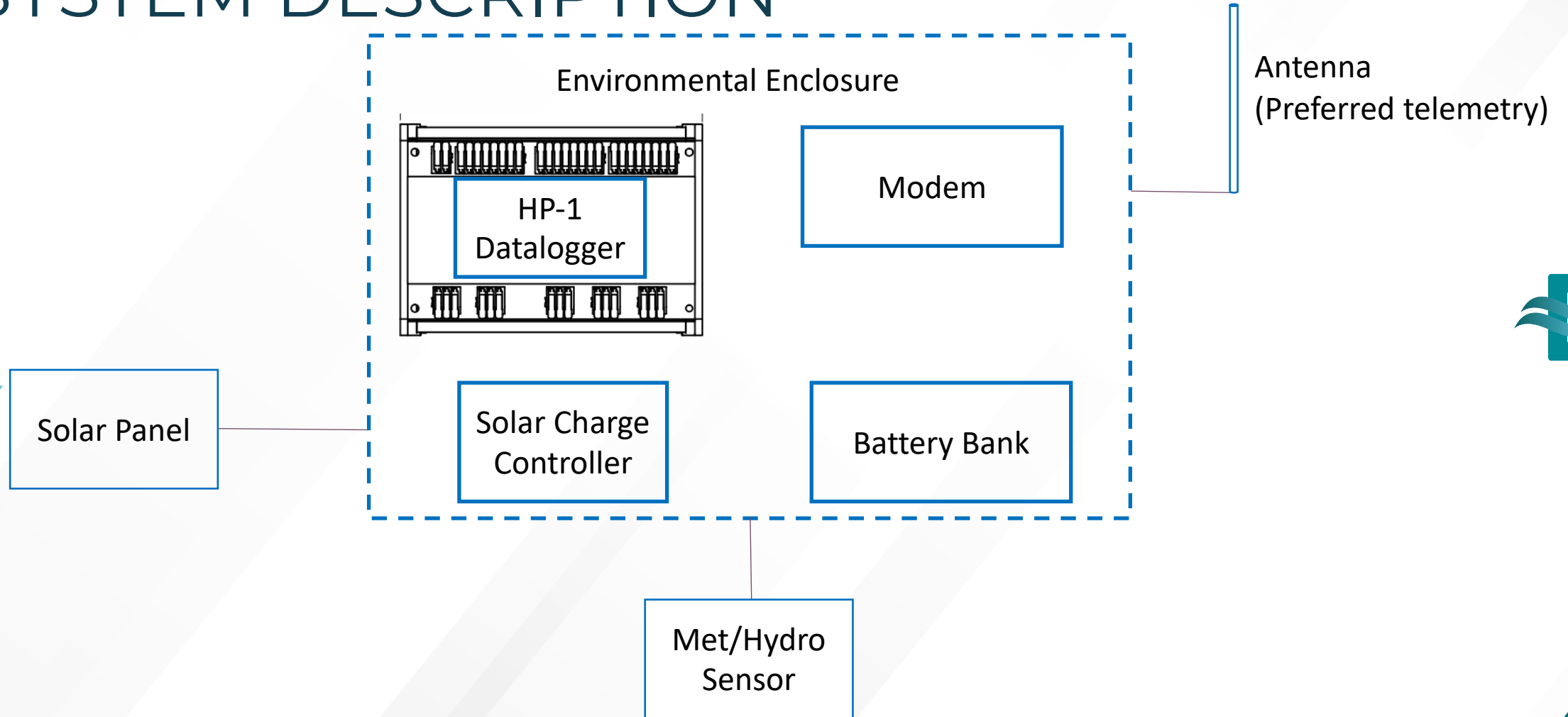hydrocarbon spills
Dredging:
Turbidity, dissolved oxygen
Inland waterways:
Safe passage, bridges and locks

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SYSTEM DESCRIPTION

DMZ-2 DATALOGGER CHARACTERISTICS

System I/O	Panel Controller Channels	Remote Controller Channels	Range	Uses
Digital inputs	8	4	Fully isolated; 8-40 VDC; 7-30 VAC; sink or source	GO/NOGO from external devices, process inputs, etc
Digital inputs	16	0	Isolated with common returns; 5-40 VDC to activate; sink only	Panel indicators (lights, etc), GO/NOGO from external devices, etc
Digital outputs (200 mA)	4	4	Fully isolated open collector; 5-40 VDC external excitation; high or low side	Drive high impedance process outputs and devices
Digital outputs (200 mA)	16	0	Isolated open collector with ncommon excitation (high side); 5-40 VDC external excitation	Drive high impedance process outputs and devices
Digital outputs (500 mA)	4	0	Isolated; solid state, single pole, normally open; 5-40 VDC external excitation	Drive relays and low impedance process outputs and devices
Analog inputs	6	4	Non-isolated; 0-40 VDC	System voltage/ Battery voltage
Current inputs	2	1	Isolated; 0-10 A	Current sensing of external devices

DMZ-2 DATALOGGER CHARACTERISTICS

System Communications	Number of Channels	Uses
RS-232	1	Product Configuration Utility (PCU); User Interface (UI); Re-flash (the process of updating the controller operating software in the field without use of external devices.
Modbus RS-485	1	Modbus slave (usable with client SCADA); monitoring
RS-232	1	Radio communications; remote monitoring
RS-485	1	Modbus master; monitoring
Client Proprietary I/O	1	SDI-12 ; Communications for I/O expansion

Optional System Communications	Number of Channels	Uses
USB	1	Host and device; memory expansion; memory stick; re-flash
Ethernet	1	Monitoring; configuration
WiFi	1	Monitoring; re-flash
Bluetooth	1	Monitoring; re-flash
CAN Bus	1	Monitoring
GPS	1	Built-in receiver with on-board or external antenna for both positioning and synchronization