the UK's leading supplier of aids to navigation

HYDROWATCH & HYDRODATA SYSTEM

Revolutionise your marine AtoN monitoring & control capability

The **new HydroWatch** is a cutting-edge monitoring unit that provides real-time data from instrumentation and AtoN assets, enabling users to analyse trends, identify any anomalies and make informed decisions. With this information, users can benefit from improved operational efficiency, reduced downtime and cost savings.

HydroData serves as a cloud-based monitoring portal for the HydroWatch. It offers a centralised platform to easily track and manage marine assets that may be dispersed across multiple locations or set in remote environments.

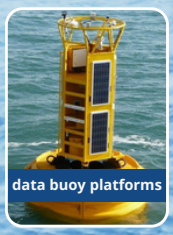
With its user-friendly HydroData web portal, the HydroWatch unit puts users in total control — enhancing marine asset management and overall business performance.

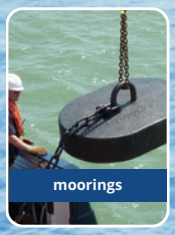
FEATURES

- Small Size — Fits Easily into Existing Enclosures
- Low Power Consumption
- 2G/4G Connectivity
- Analogue and Digital Data Inputs/Outputs
- RS232/485 Connectivity
- Compatible With Many Existing Sensors and Marine Devices
- NMEA/Modbus Protocol Support
- User-Friendly Web Portal
- Programmable Alarm Warning Messages for Critical Event Notifications
- Variable Reporting Frequency and Costs — Optimising Data Usage and Costs, Whether Users Require Real-Time or Periodic Updates
- UK Manufactured and Backed by Local Support and Expertise

MADE IN BRITAIN

Website: www.hydrosphere.co.uk | Telephone: +44 (0)1420 520374 | Email: sales@hydrosphere.co.uk





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Example 1: An isolated sector light (asset monitoring)

Example 2: Marine traffic lights (remote control)

HydroWatch unit receives & transmits data via 2G/4G networks

Control messages sent securely to HydroWatch unit

Data displayed on web portal via HydroData

Data collected by cloud server

TECHNICAL SPECIFICATIONS

IP Rating	IP64
Size & Mounting	110 mm x 95 mm x 35 mm 4 x M4 bolt
Connectivity	2G, 4G CAT1 LTE EU bands, global on request
Operating Voltage	7–70 VDC
Configuration	Remote configuration by cloud portal over 4G
Onboard Storage	Up to 3000 buffered sensor readings
Current Draw @ 12VDC	15 minutes = 4 mAh 5 minutes = 5 mAh Live = 75 mAh
Report Interval	30 seconds to 300 minutes

DEVICE FUNCTIONALITY

Voltage Monitoring	1 x main battery 5 x additional 0–72 VDC
Temperature	1 x onboard 2 x external
Sensor Run Time	YES
Trigger Wake Up	Voltage on sensor wire
Vibration/Tilt	TILT XY XZ YZ, vibration runtime & acceleration
Impact Sensor	1.8 G (customisable)
Control	4 via external relay controller On/off & reset mode 3-second pulse

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