

SMART CONNECT

SMART CONNECT is an interface module that links Rivertrace SMART BILGE+ and SMART ODME to an electronic Oil Record Book (eORB) on the vessel's LAN.

SMART CONNECT is a compact interface module that links SMART BILGE+ and SMART ODME (where applicable) directly to an electronic Oil Record Book (eORB) or Fleet Intelligence software over the vessel's LAN. Installed between the monitoring equipment and onboard software, it provides a reliable, automated pathway for compliance data to move from the machinery space to digital systems—eliminating the need for manual data transfer.

Traditional Oil Record Book entries rely on manually compiled data from multiple sources, making the process time-consuming and prone to errors or

inconsistencies. As vessels transition to digital record-keeping, the need for accurate, traceable, and inspection-ready data becomes critical—particularly under increasing regulatory scrutiny.

SMART CONNECT automatically captures live data from SMART BILGE+ via RS485, stores and totalises the information, and securely transfers discharge summaries to the eORB or Fleet Intelligence system via an Ethernet API. This reduces the crew's role to a simple review and approval step, improving efficiency while ensuring consistent, reliable, and compliant record keeping.



Features

- SMART CONNECT receives live discharge data from SMART BILGE+ via RS485
- Secure data handling with encryption and alignment to IACS UR E26/E27 cybersecurity principles
- Crew review and approve entries within the eORB - no manual data entry required

Applications

- Oil Record Book automation
- MARPOL Annex I compliance
- Digital fleet compliance systems
- Integration with eORB providers

Benefits

- **Improved Compliance Confidence** - Enhanced traceability for inspections and audits
- **Reduced Operational Burden** - Saves crew time and reduces workload
- **Data Integrity and Transparency** - Direct transfer from certified monitoring equipment
- **Future Ready Digital Integration** - Supports transition to fully connected compliance ecosystems

BASIC SPECIFICATIONS

Input / Output

Digital Output:	API Over Ethernet output.
Digital Input:	SMART BILGE+ Input. 2-wire RS485 IMO data stream. With a bespoke communication protocol. (~1000 Metre maximum cable length). SMART ODME, 2-wire RS232 IMO data stream. With a bespoke communication protocol. (~10 Metre maximum cable length).
Cable Terminals:	Accept cores of 2.5mm ² (HV) and 1.5mm ² (LV)
Cable Glands:	3 x IP65 Cable glands to accept cable diameters 6mm to diameter.

Data Storage and Retrieval

Date Capacity:	>18 months capacity in non-volatile storage.
Data Retrieval:	Automatic streaming to the electronic oil record book in an API, over ethernet. Manual cable download using bespoke and secure Rivertrace PC application.

Environmental & Sample

Ambient Humidity:	90%RH Max @ 55°C
Ambient Temperature:	0°C - +60°C
Protection Class:	IP 65

System and Supply

Supply Voltage:	24VDC, 24VAC, 110VAC or 230VAC
Power Supply Frequency:	50-60Hz
Supply Voltage Tolerance:	+/- 10%

Construction and Other Criteria

Cyber Security:	Full encryption and designed following IACS UR E26 and E27
Weight:	0.8 Kg



RIVERTRACE

T: +44 (0)1737 775500

F: +44 (0) 1737 775501

E: sales@rivertrace.com

rivertrace.com

Rivertrace Limited Unit P, Kingsfield Business Centre, Philanthropic Road, Redhill, Surrey RH1 4DP England