

## Data Logger

Control and logging of oil-water mixtures

### 1. Features

The system is designed to control the residual oil content after the separation of oil-water mixtures and before the water is discharged overboard. In addition to compliance with the legally

required values of the oil content of Oil-water mixtures on board, the FG Data Logger enables the exact logging of all relevant data. The data is protected against manipulation.

#### Characteristics

- 15 ppm (5 ppm) mode
- High operational security
- Storage of all control and acquisition components in a lockable and additionally secured cabinet
- Tamper-proof operation even when locked
- Exact data acquisition of oil content, valve position; Flow rate, GPS and door position
- Tamper-proof logging of all data
- Fast and easy availability of all data
- Easily print and download data
- Assistance in training the crew
- Worldwide sales



## 2. Function

### Monitoring of the medium before discharge overboard

The almost oil-free medium is conveyed into the data logger by line pressure. An oil alarm monitor continuously measures the oil content of the medium. Depending on this measurement, the

Oil alarm monitor controls the 3/2-way automatic valve and thus decides between returning to the bilges and discharging overboard. The flow is also checked.

## 3. Technical data

3.1 Complete system	
Medium	Bilge water acc. IMO resolution MEPC.107 (49)
Dimensions WxHxD [mm]	925x720x359
Weight [kg]	110
Voltage [V]	24 DC
Flow [l/min]	Max. 200
Operating pressure [barg]	1-16
Control air [barg]	3 - 8
Materials	Housing: carbon steel painted RAL 7024 Pipes and valves: min. 1.4404

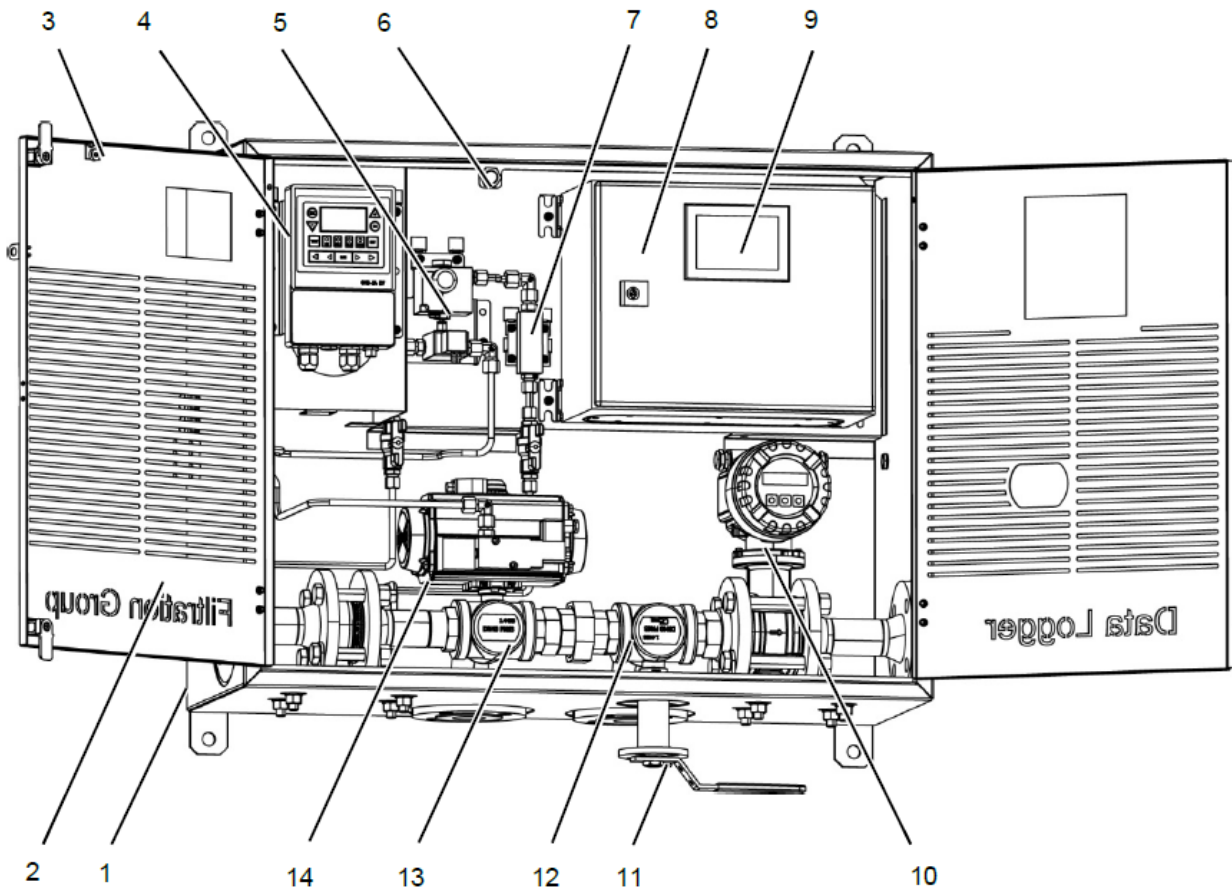
3.2 Control box	
Protection	IP 65
Switching outputs	Digital/potential-free contacts
HMI	4,3"

3.3 GPS	
NMEA protocol	Standard: RMC Optional: GLL & ZDA
Interface	RS422/485

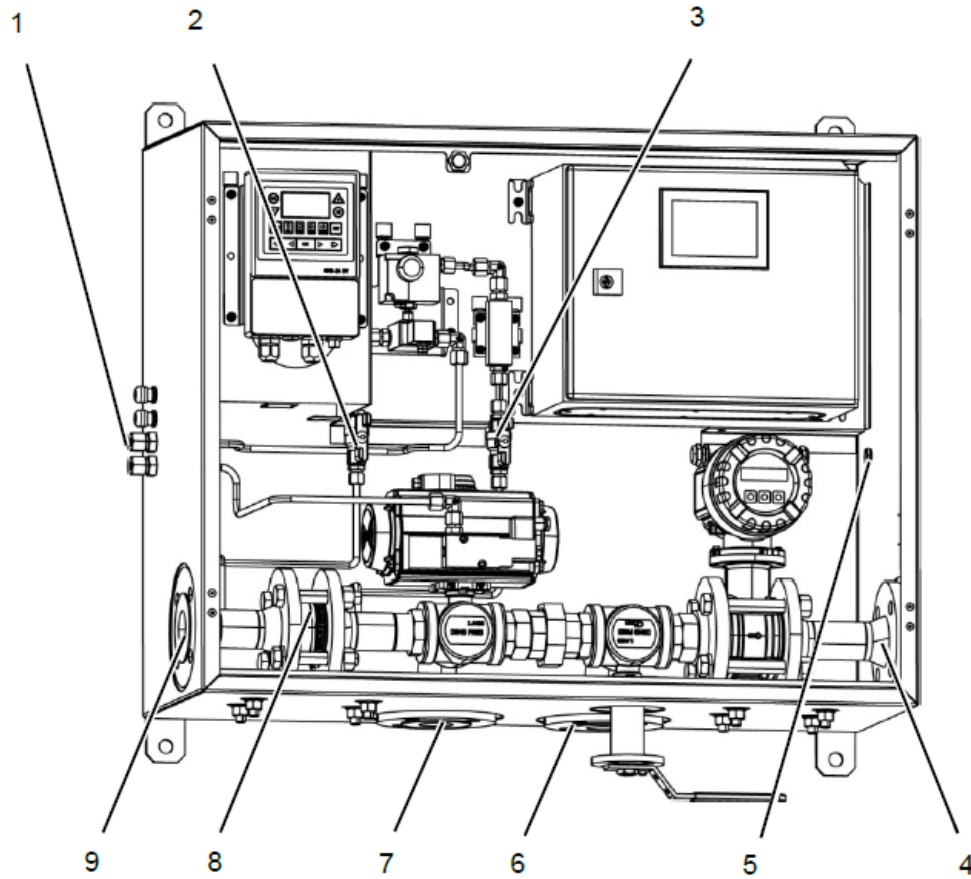
Subject to technical alteration without prior notice.

## 4. System components



- |   |                             |
|---|-----------------------------|
| 1 Housing                                 | 8 Control box               |
| 2 System door, double leaf with locking   | 9 HMI                       |
| 3 Monitoring sensor door open             | 10 Flow meter               |
| 4 Oil alarm monitor                       | 11 Hand lever 3/2-way valve |
| 5 Measuring cell oil alarm monitor        | 12 3/2-way manual valve     |
| 6 Magnet holder system door               | 13 3/2-way pneumatic valve  |
| 7 Flow sensor for oil content measurement | 14 Valve actuator           |

## 5. Connections



- 1 Fresh water and control air connections - 10 mm\*
- 2 Feed medium to the oil alarm monitor
- 3 Return of measuring medium
- 4 Board drain after 3/2-way valve - DN40\*
- 5 Control output - cable gland - M16

- 6 Return to the bilges after 3/2-way manual valve - DN40\*
- 7 Return to the bilges / port test after automatic valve - DN40\*
- 8 Check valve - DN40
- 9 Inlet medium from the oil separator - DN40\*

\* Important connection dimensions on site

## 6. Spare Parts

Description	Order number
<b>Oil Alarm Monitor</b>	
Cleaning kit	70567510
Cell	70567514
Computer unit 15 ppm	70572255
Desiccant	70805692
<b>Switches - sensors</b>	
Limit switch sensor housing - I-05	72469909
Flow sensor - I-04	72470160
Limit switch - I-03A/B	72472287
<b>Valves</b>	
Check valve - CV-01	70805131
3-way valve - AV-01 and HV-01	72472281
Actuator for AV-01	72472282
Repair kit for actuator AV-01	72472283
Solenoid valve - SV-01	72472285
<b>Others</b>	
Micro SD card adapter set	70805131