

**OMD- 24 Series**

The OMD-24 Bilge Alarm Unit has been designed specifically for use in conjunction with 15 ppm oil-water separator units and has a specification and performance which exceeds the requirements of the International Maritime Organization specifications for 15ppm Bilge Alarms contained in Resolution MEPC. 107 (49).

The unit is supplied with 2 works-adjusted alarms at 15 ppm. Other set points (10 ppm or 5 ppm) are possible and can be adjusted on site at any time by using the buttons at the front panel. If an alarm set point is exceed, the alarms are visible at the front panel and the appropriate relays are switched.

In case of malfunction the System LED at the front panel will change from blinking green to permanent red. For the data logging function the unit requires an status input from the separator. Optionally a 0(4) - 20 mA (equal to 0 - 30 ppm) signal output is available for driving a recorder or external meter.



 Read more : OMD-24 series



 **OMD 24**



 **Property Value**

Range (measurement & indication) 0 - 30 ppm, Trend up to 50ppm

Range (IMO specification) 0 - 15 ppm (according IMO regulations)

Accuracy better than IMO MEPC.107(49)

Electrical power supply 24V - 240V, AC or DC, Automatic Voltage Selection

Electrical power consumption < 10 VA

Sample Oily water from separator outlet, 0,1 - 4 l/min

Sample temperature range +1°C  to +65°C

Sample connections R 1/4" Female

Alarm 1 & 2 Set Points 1 - 15ppm (independently adjustable)

Alarm 1 operating delay for annunciation 1 - 540 sec

Alarm 2 operating delay for control 1 - 10 sec

Alarm contacts 2 independently adjustable switchover contacts

Alarm contact operation mode De-energized in Alarm State

Alarm contact ratings 3A, 240V each

Alarm output 0 - 20 mA or 4 - 20 mA, for 0-30ppm reversible, ext. Load<150Ω

Display Graphic Display

Ambient temperature +1°C to +55°C

Class of protection IP 65

Dimension 360 x 240 x 100 mm (WxHxD)

Weight 5,4 kgs

 

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**OMD-32 Series**

The OMD-32 Oil-in-Water Monitor has been designed specifically for use in conjunction with oil-water separator units.

The OMD-32 has been constructed using technology of the DECKMA HAMBURG OMD series industrial instruments and 15ppm Bilge Alarm Monitors, that have a specification and performance which exceeds the requirements of the International Maritime Organization specifications for 15ppm Oil-in-Water Monitors contained in Resolution MEPC. 107 (49).The OMD-32 unit is supplied with 2 works-adjusted alarms at 10 ppm. Other set points are possible (e.g. 100ppm) and can be adjusted on site at any time by using the buttons at the front panel.If an alarm set point is exceeded, the alarms are visible at the front panel and the appropriate relays are switched. In case of malfunction the System LED at the front panel will change from blinking green to permanent red, and a system fault relay contact is switched.

A 0(4) - 20 mA signal output is available for driving a recorder or external meter.

 Read more : OMD-32 series



 **OMD 32**

 

**Property Value**

Range\* 0 – 200 ppm

Resolution\* 1ppm (0.1 ppm below 10ppm)

Accuracy up to +/- 1ppm below 10ppm

Response time < 5s

Sample Water Pressure >max. 10 bar

Sample Flow typ. 2 Liter / min

Sample Water Temperature up to 90° C

Power Supply 24 V – 240V AC or DC

Power Consumption < 10 VA

ppm Alarm 2  adjustable ( independent, entire range )

ppm Alarms delay 2 adjustable ( independent, from 1 sec. up to 540 sec.)

ppm Alarm visual indication 2 Red LEDs

ppm Alarms Contact Rating 2 Potential free 1 pole change over contacts, 3 A / 240 VAC

System Fault Alarm visual indication: Red LED

System Fault Alarm Contact Rating Potential free 1 pole change over contact, 3 A / 240 VAC

Output Signal 0(4) – 20 mA, ext. Load < 150 W,  Output range adjustable

Cleaning System\* Automatic, pneumatically operated

Cleaning system air pressure\* 2.5 - 6 bar, typ. <0.1 Liter / hour

Ambient Temperature + 1 to + 55° C

 

**OMD- 2008 Series**

5 ppm + 15 ppm Bilge Alarm according to IMO Resolution MEPC.107 (49)



Read more : OMD-2008 series



 **OMD 2008**



**Property Value**

Range (measurement & indication) 0 - 30 ppm, Trend up to 50ppm

Range (IMO specification) 0 - 15 ppm (according IMO regulations)

Accuracy better than IMO MEPC.107(49)

Electrical power supply 24V - 240V, AC or DC, Automatic Voltage Selection

Electrical power consumption < 10 VA

Sample Oily water from separator outlet, 0,1 - 4 l/min

Sample temperature range +1°C  to +65°C

Sample connections R 1/4" Female

Alarm 1 & 2 Set Points 1 - 15ppm (independently adjustable)

Alarm 1 operating delay for annunciation 1 - 540 sec

Alarm 2 operating delay for control 1 - 10 sec

Alarm contacts 2 independently adjustable switchover contacts

Alarm contact operation mode De-energized in Alarm State

Alarm contact ratings 3A, 240V each

Alarm output 0 - 20 mA or 4 - 20 mA, for 0-30ppm reversible, ext. Load<150Ω

Display Graphic Display

Ambient temperature +1°C to +55°C

Class of protection IP 65

Dimension 360 x 240 x 100 mm (WxHxD)

Weight 5,4 kgs



# OMD-2008 EV FC MCU with Flow Control

The OMD-2008 EV FC MCU is equipped with a Flow Sensor. The Flow Sensor is positioned in the Drain line of the Measuring Cell.

If the flow rate through the Measuring Cell is too low, or if the sample is not flowing at all, the Instrument will go to Alarm condition and issue a “Status: Flow?” message. According to MEPC.107(49) the 15ppm Bilge Alarm has to be provided with a representative sample, i.e. the operator of the instrument is responsible to maintain a proper sample flow through the instrument. The recommended sample flow rate for Deckma instruments is approx. 2 Liters per Minute. At this flow rate, with a common setup of separator and 15ppm Bilge Alarm, it is easily possible to reliably operate the instrument, and to ensure the required short reaction time to changes in the oil content of the effluent water. The instrument does not know about the sample stream flow rate. If circumstances lead to interruptions of the sample flow, or if the sample flow is stopped completely, the portion of the sample that is in the sample glass tube will be measured continuously. The instrument will display the same measurement result for a long time, but it may fail to adequately react to changes in the overboard discharge water oil content.

For many years the OMD series instruments have had a dedicated input to connect a flow switch to monitor the sample flow rate. However, not many installation have been made with an additional flow switch. A more easy solution had to be found, a solution that does not require additional pipework, or electrical work, on site. The new OMD-2008 EV FC MCU version of the OMD-2008 instrument come with a flow sensor that measures the sample flow rate, and automatically sets the instrument into alarm condition, if a sufficient flow rate is not maintained. Constructed to make accidental flow interruptions, incorrectly closed valves, and a missing sample stream harmless events that do not lead to unlawful discharge, the OMD-2008 EV FC MCU also makes manipulation and tinkering with the instrument setup much less rewarding. Additionally for the OMD-2008 EV FC MCU instruments a Manual Cleaning Unit (MCU) is available. This system allows to quickly clean the sample glass tube without having to open the Measuring Cell. With the MCU maintenance of the system becomes very easy, ensuring high reliability and reduced maintenance workload.



 Read more : OMD-2008 EV FC MCU series



  **OMD 2008 EV FC MCU**



**Property Value**

Range: 0 – 30 ppm, Trend indication 50ppm

Accuracy According IMO MEPC. 107(49)

Linearity: Up to 30 ppm better than ± 2 %

Display: Yellow Graphic Display

Power Supply: 24 V - 240V AC or DC, Automatic Voltage selection

Alarm Points 1+2: Adjustable between 1 - 15 ppm (Works adjustment 15 ppm)

Alarm 1 Operating Delay: (for annunciation purpose) Adjustable between 1 – 540 sec. (Works adjustment 2 sec)

Alarm 2 Operating Delay: (for control purposes) Adjustable between 1 – 10 sec. (Works adjustment 10 sec)

System Fault Alarm: Red LED

Alarm Contact Rating: Potential free 1 pole change over contacts, 3 A / 240 V

Alarm Indication: Red LEDs

Output Signal: 0 – 20 mA or 4 – 20 selectable active current loop, ext. Load < 150 Ohm

Clean Water Pressure: 0-6 bar

Sample Water Pressure: 0,1 - 6 bar

Sample Flow: Approx. 0,6 - 3 l/min depend. to pressure

Ambient Temperature: + 1 to + 55° C

Sample Water Temperature: + 1 to + 65° C

Size (Computer Unit): 200 mm W x 200 mm H x 100 mm D

Size (EV-FC-MCU Arrangement): 150 mm W x 290 mm H x 140 mm D

Degree of Protection: IP 65

Weight: 5,9 kg