

15ppm Bilge Alarm

FOCAS-1800

This product conforms to MEPC.107(49)



 **FELLOW KOGYO CO.,LTD.**

For protection of the beautiful global environment, this product plays an important part in the sea all over the world.

Advanced device recognized throughout the world.

FOCAS-1800

Since our company was established in 1969, we have been developing environment monitoring devices and many measuring instruments and sending out them into the industrial world to make a contribution for environmental protection.

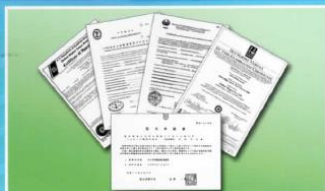
In these days in which environmental pollution is gradually advancing on a worldwide scale, the whole world is tightening the environmental protection and monitoring on stricter standards.

This advanced device FOCAS-1800 has been researched and developed by using the accumulated technology that was highly appraised as a result of sending out the Oil Concentration Detector FOCAS 3 Series in the past. The FOCAS-1800 having unique high performance that was expected by users has been winning unstinted praise both in Japan and in the world since it was released.

On January 1, 2005, the International Treaty was amended and more completed by the International Marine Organization (IMO), so that MEPC107 (49) was put in force.

Approval of the Model in Each Country in the World.

JG (JAPAN)
EC (Europe.DNV)
CCS (CHINA)
USCG (USA · USCG46CFR162.00)



Features

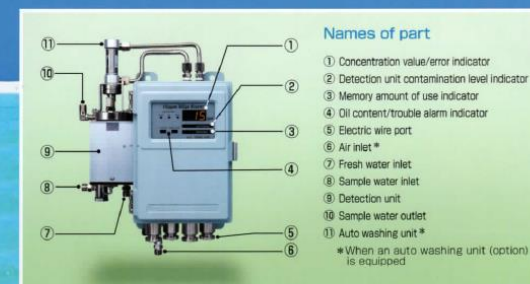
- This product adopts an automatic operation method using sample water pressure which is matched to the operation of an oil separator or pump.
- The automatic washing function of the detection unit can reduce troublesome manual washing work. (Option)
- An error code indication provided at occurrence of a device fault and a stain indication of the detection unit facilitate maintenance and inspection. The product has a high-maintainability structure.
- Operation records such as trouble alarms can be saved in a memory card and confirmed as required.
- The product can measure only the oil concentration and is not affected by SS content (floating turbidity substance other than oil content) and a detergent.
- For alarms, a double safety method is used. When the oil concentration is 15 ppm or more, an oil alarm is output. When sample water is defective or the instrument is defective, a trouble alarm is output.

The principle of measurement using our unique technology is preeminent above others.

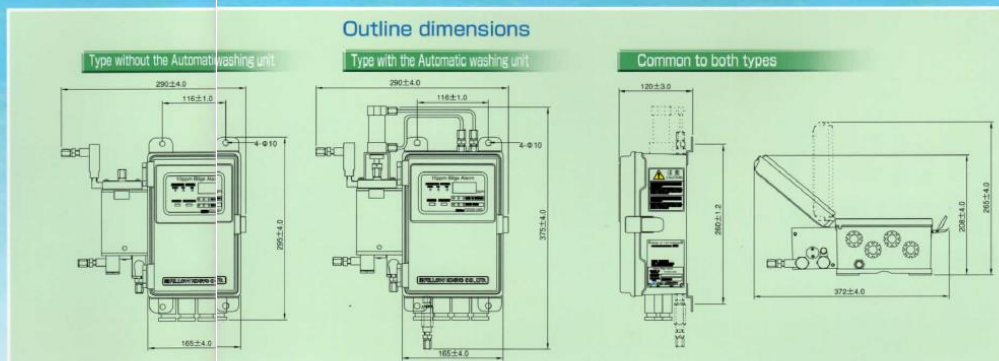
Measuring method

The FOCAS-1800 using a full optical continuous measuring method* can surely grasp changes of oil concentration every moment while providing a very quick measurement response.

* The light coming from optical elements is received by multiple optical elements. Then, a complicated analysis about changes of oil type or concentration and differences of pattern due to mixed foreign substances can be made by CPU and software in an instant through calculation.



Outline dimensions



●Product Specifications

Measuring method	Full optical continuous measuring method	
Operating method	Automatic operation using sample water pressure	
Measuring interval	Measuring sampling time: 1 sec or less	
Measuring range	0 to 30 ppm	
Measuring accuracy	±5 ppm or less (at 15 ppm)	
Measuring pressure	0.03 to 0.3 MPa	
Measuring water temperature	2 to 45°C	
Measuring flow rate	0.2 to 3 L/min	
Washing air	0.3 to 0.9 MPa (Use for option: The Automatic washing function)	
Bearable vibration	2 Hz to 13.2 Hz, amplitude ±1.0 mm 13.2 Hz to 80 Hz, acceleration ±0.7G	
Bearable angle of inclination	22.5°C all the directions	
Oil concentration alarm	OIL AL1	1 c contact (max AC 250V, 2 A) no-voltage contact
	OIL AL2	1 b contact (max AC 250V, 2 A) no-voltage contact
Defect alarm	DEF AL.	1 c contact (max AC 250V, 2 A) no-voltage contact
Power failure alarm	Cut off	1 c contact (max AC 250V, 2 A) no-voltage contact
Combined alarm	ALL AL1	1 c contact (max AC 250V, 2 A) no-voltage contact
	ALL AL2	1 b contact (max AC 250V, 2 A) no-voltage contact
Relay contact for solenoid valve		1 a contact voltage contact
	P.S.(Specification A)	*A supply voltage is output.(Load 1.5 VA or less)
	VALVE.	1 c contact voltage contact
	(Specification B)	*A supply voltage is output.(Load 1.5 VA or less)
Recorder output	REC	DC 4 to 20 mA
Supply power and power consumption	AC 90 to 240V 50/60 Hz 20 VA max	
Surrounding temperature humidity	0 to 50°C (no- freeze). 5 to 90%RH(no-condensing)	
Material and coating color	Sensor unit Material: Al 5056, C3604 Surface treatment: Alumite Nickel plating Main unit Material: ADC-12 Coating color: Munsell 7.5BG7/2	
Waterproof grade	IP53(With the Automatic washing function) IP53(Without the Automatic washing function)	
Weight	Total weight =Approx. 5.6 kg (The Automatic washing function,except accessories)	
External dimensions	W290mm × H375mm × D120 mm (With the Automatic washing function)	

※A part of the specifications, design, and contents of catalogue of this product is subject to change without previous notice for improvement of product performance and functions.

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