●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℃
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℃ all the directions
Oil concentration alarm	OIL AL1 OIL AL2	1c contact (max AC 250V, 2 A) no-voltage contact 1b contact (max AC 250V, 2 A) no-voltage contact
Defect alarm	DEF AL.	1c contact (max AC 250V, 2 A) no-voltage contact
Power failure alarm	Cut off	1c contact (max AC 250V, 2 A) no-voltage contact
Combined alarm	ALL AL1 ALL AL2	1c contact (max AC 250V, 2 A) no-voltage contact 1b contact (max AC 250V, 2 A) no-voltage contact
Relay contact for solenoid valve P.S.(Specification A)		1a contact voltage contact *A supply voltage is output.(Load 1.5 VA or less)
	VALVE. (Specification B)	1c contact voltage contact *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℃ (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		IP55(With the Automatic washing function) IP58(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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06.3.3000 (I)

15ppm Bilge Alarm

FOCAS-1800

This product conforms to MEPC. 107(49)

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 wining 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

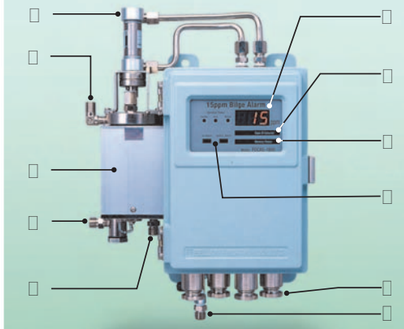
- This product adopts an automatic operation method using sample water pressure which is matched to the operation of an oil separator or pump.
- The automatic washing function of the detection unit can reduce troublesome manual washing work, (Option)
- An error code indication provided at occurrence 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.



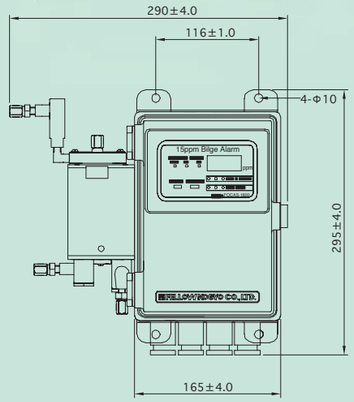
Names of part

1. Concentration value/error indicator
2. Detection unit contamination level indicator
3. Memory amount of use indicator
4. Oil content/trouble alarm indicator
5. Electric wire port
6. Air inlet*
7. Fresh water inlet
8. Sample water inlet
9. Detection unit
10. Sample water outlet
11. Auto washing unit*

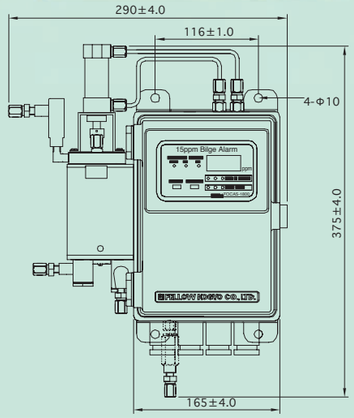
* When an auto washing unit (option) is equipped

Outline dimensions

Type without the Automatic washing unit



Type with the Automatic washing unit



Common to both types