

**Request regarding accuracy check test • calibration of 15ppm bilge alarm**

This product is important equipment in order to monitor preservation of the marine environment. It is also an extra-sensitive measuring device and it might become less accurate due to repeated use over the years. For accuracy assurance, regular accuracy check test by our company or our service agent or check and calibration at our factory is necessary.

1. FOCAS-1500C to which MEPC60(33) is applied.

- If the unit is more than 5 years old, we recommend you accuracy check test by our company or our company's service agent or calibration at our factory as early as possible. In order to keep the accuracy of the unit, you are also recommended to carry out calibration at our factory or accuracy check test by our company's service agent once a year or once every two years.

2. FOCAS-1800/2000 to which MEPC107(49) is applied.

- The following “precision certificates ” are included with all FOCAS-1800 shipments. For the rule compliance, the certificate validity is within 5 years after issuing date. Therefore, before it expires, be sure to carry out accuracy check test by our company or our service agent near you or calibration at our factory. Or the unit may be replaced by a calibrated 15ppm bilge alarm.

**FOCAS-1800 precision certificate**



**FOCAS-2000 precision certificate**



- **FOCAS-2000—Replacement of detecting part(Sensor unit) separately sold can be accepted. As the completion of every five years' calibration.**
- In order to keep the accuracy of the unit, you are recommended to carry out calibration at our factory or accuracy check test by our company or our company's service agent once a year or once every two years.

★ If you get inadequate accuracy due to status of use, main unit exchange etc will be necessary. Therefore please contact our company or our representative offices in advance.

(Contact information)

- Fellow Kogyo Co Ltd. Tel 813-3800-9777 Fax 813-3800-9770  
Website:<http://www.fellow-co.com>
- Our overseas representative offices Please refer to the above website
- Manufacturers of oily water separator in Japan(Contact the manufacturers in current use)

# Procedure for accuracy check · calibration of 15ppm bilge alarm

## —ALL MODELS—

1. To assure accuracy, please request regular accuracy check test by our service agent or our engineer or calibration at our factory.
2. The following certificate will be issued after accuracy check or calibration.  
(Information in this certificate is subject to change without notice.)

### Step 1

If certified engineer attend the vessel (or in the workings of the agent's factory) and accuracy of the bilge alarm stays within the guidelines, he will issue the following temporarily certificate and hand one copy to you. Please retain this copy on board a ship until you receive formal certificate sent by our company or our company's representative offices at a later date. If accuracy of bilge alarm is outside of correct range, one of the following three actions should be taken.

- 1 Part replacement based on our condition (FOCAS - 1500C/2000)
- 2 Replacement of the complete set (FOCAS - 1800/2000)
- 3 Calibration and repair at our factory

#### FOCAS-1500C temporarily certificate

#### FOCAS-1800/2000 temporarily certificate

<b>7工口一工業株式会社</b> <b>FELLOW KOGYO CO., LTD.</b> <small>1245 Chama, Mishinagawa, Aikawa-ku, Tokyo 116-0014, Japan</small> <small>TEL. +81-3-3302-2111 FAX +81-3-3302-2110 http://www.fellow.co.jp</small>			
<b>Precision Certificate</b> <small>計測精度証明書 (Certificate Number: will be indicated by number later.)</small>			
<b>Service Agent authorized by FELLOW KOGYO CO., LTD.</b> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto; text-align: center;">                 Approved Agent No. <b>FE</b> </div>			
Customer:			
Vessel name:		IMO No.:	
Equipment: 15 ppm Bilge Alarm (Oil Concentration Detector)			
Model: <b>FOCAS-1500C</b>		Serial No.:	
Date of manufacture:			
Guidance: The FOCAS-1500C meets the requirements of IMO Resolution MRP060(10). The Certificate guarantees period is 2 years by maker's recommendation. It will be checked accuracy test or replacement with a calibration procedure in every 2 years.			
Accuracy Test:			
Test solution	Result (Telephone)	Pass/Fail	Tested by
15ppm	15ppm	<input type="checkbox"/> Pass (Recommended range) <input type="checkbox"/> Fail (Recommended range)	
15ppm	15±5ppm	<input type="checkbox"/> Pass (Recommended range) <input type="checkbox"/> Fail (Recommended range)	
Supply Voltage: 100-240VAC			
Confirmed by: Signature			
Manufacturer's name/concern:			
Date of issue (Date):			
(Valid for two years after issued by maker's recommendation.)			
Service engineer: Signature			
Company name:			
Page 1 of 1		Should be distributed singly to Fellow Kogyo.	

<b>7工口一工業株式会社</b> <b>FELLOW KOGYO CO., LTD.</b> <small>1245 Chama, Mishinagawa, Aikawa-ku, Tokyo 116-0014, Japan</small> <small>TEL. +81-3-3302-2111 FAX +81-3-3302-2110 http://www.fellow.co.jp</small>			
<b>Precision Certificate</b> <small>計測精度証明書 (Certificate Number: will be indicated by number later.)</small>			
<b>Service Agent authorized by FELLOW KOGYO CO., LTD.</b> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto; text-align: center;">                 Approved Agent No. <b>JK</b> </div>			
Customer:			
Vessel name:		IMO No.:	
Equipment: 15 ppm Bilge Alarm (Oil Concentration Detector)			
Model: <b>FOCAS-1800</b> (Automatic ranging type)		Serial No.:	
Date of manufacture:			
Guidance: The FOCAS-1800 has been developed to according IMO Resolution MRP010(40). The Certificate guarantees period is 5 years. It will be checked accuracy test or replacement with a calibration procedure in every 5 years.			
Accuracy Test:			
Test solution	Result (Telephone)	Pass/Fail	Tested by
15ppm	15ppm	<input type="checkbox"/> Pass (Recommended range) <input type="checkbox"/> Fail (Recommended range)	
15ppm	15±5ppm	<input type="checkbox"/> Pass (Recommended range) <input type="checkbox"/> Fail (Recommended range)	
Supply Voltage: 100-240VAC			
Confirmed by: Signature			
Manufacturer's name/concern:			
Date of issue (Date):			
(Valid for five years after issued by maker's recommendation.)			
Service engineer: Signature			
Company name:			
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Step 2

At a later date, our company or our company's representative offices will send the following formal certificate to the designated area. This certificate should be retained on board a ship without fail. In case check and calibration was carried out at our factory, we will attach the following certificate to the bilge alarm and send them to the designated area

FOCAS-1500C formal certificate

FOCAS-1500C

**フェロ一工業株式会社**  
FELLOW KOGYO CO.,LTD.

**PRECISION CERTIFICATE**  
精度証明書

Certificate Number :                      Issued :

Precision is proved as follows.  
下記の通り精度を証明します。

Model Name (IMONo.)	
Model	FOCAS-1500C
Serial No.	
Date of manufacture	

Test condition	Accuracy test result
0 ppm	ppm
15 ppm ±0.5ppm	ppm

Test date	
Service Agent (Tested by)	(Signed and Agent No.: FE )

What is corrected is invalid. 修正されたものは無効です。  
Valid for five years after issued. 有効期限は発行後5年です。

**フェロ一工業株式会社**  
FELLOW KOGYO CO.,LTD.  
〒110-0015 東京都中央区新富町一丁目1番1号  
TEL 03-3800-0111 FAX 03-3800-0110  
http://www.fellow-cs.com

FOCAS-1800/2000 formal certificate

FOCAS-1800

**フェロ一工業株式会社**  
FELLOW KOGYO CO.,LTD.

**PRECISION CERTIFICATE**  
精度証明書

Certificate Number :                      Issued :

Precision is proved as follows.  
下記の通り精度を証明します。

Model Name (IMONo.)	
Model	FOCAS-1800
Serial No.	
Date of manufacture	

Test condition	Accuracy test result
0 ppm	ppm
15 ppm ±0.5ppm	ppm

Test date	
Service Agent (Tested by)	(Signed and Agent No.: FE )

What is corrected is invalid. 修正されたものは無効です。  
Valid for five years after issued. 有効期限は発行後5年です。

**フェロ一工業株式会社**  
FELLOW KOGYO CO.,LTD.  
〒110-0015 東京都中央区新富町一丁目1番1号  
TEL 03-3800-0111 FAX 03-3800-0110  
http://www.fellow-cs.com

—FOCAS-2000—

Replacement of detecting part (Sensor unit) separately sold can be accepted.

As the completion of every five years' calibration.

Please request the sensor unit (with precision certificate) to our office or our company's representative offices. We will send the sensor unit with replacement manual, **ship's crew can replace with new sensor unit.**

FOCAS-2000 sensor unit precision certificate

**Precision certificate**  
精度証明書

Precision is proved as follows.  
下記の通り精度を証明します。

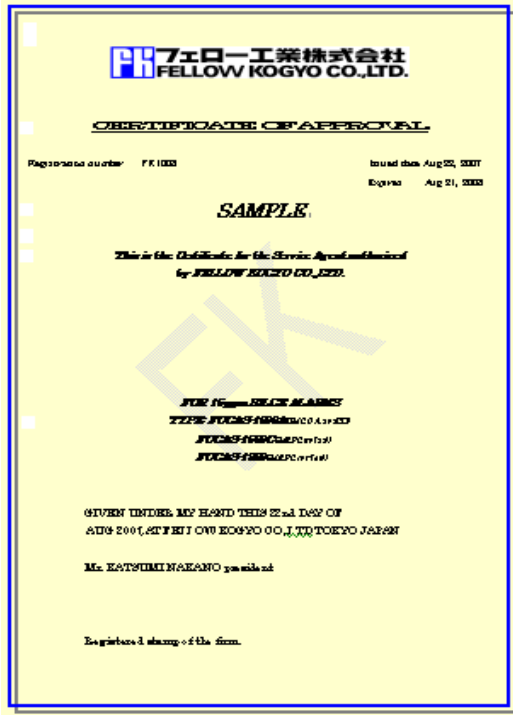
Model	FOCAS-2000 Sensor unit
Serial No.	
Calibration value	
0ppm	ppm
1.5ppm	ppm
Date	
Engineer	
Belong	

What is corrected is invalid. 修正されたものは無効です。  
Valid for five years after issued. 有効期限は発行後5年です。

**フェロ一工業株式会社**  
FELLOW KOGYO CO.,LTD.  
〒110-0015 東京都中央区新富町一丁目1番1号  
TEL 03-3800-0111 FAX 03-3800-0110  
http://www.fellow-cs.com

Reference: certificate of certified engineer

The following certificates are issued to the certified engineers of our service agent. According to the regulation, only certified engineers can carry out accuracy check test.



This certificate becomes invalid if your belonging company changes.

Start using ID card from January 1, 2023



Accuracy check test performed by the authorized agent without the certificate or ID card is not valid.