

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive (EU) 2015/559, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Oil-content meters

with type designation(s)
15ppm Bilge Alarm Type FOCAS-2000,

Issued to

Fellow Kogyo Co., Ltd.
Tokyo, Japan

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/2.3 and Annex B, Module B in the Directive. Marpol 73/78 as amended, Annex I Regulation 16, IMO Res. MEPC.107(49)

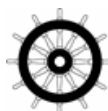
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2021-06-23**.

Issued at **Høvik** on **2016-06-24**

DNV GL local station:
Yokohama

Approval Engineer:
Pål Evang Nundal



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

Product description

The equipment is intended for installation onboard ships for bilge water monitoring/ alarm
- max.15 ppm at discharge overboard

The 15ppm Bilge Alarm is designed and tested to meet the requirements of the IMO Resolution MEPC.107(49).

Application/Limitation

The equipment is not permitted to be installed in spaces subject to explosion hazards.

Type Examination documentation

Drw. No. Date/ Rev. Title;

Tests carried out

Tested in accordance with the guidelines and specifications of IMO Resolution MEPC 107(49);

- Research Institute of Marine Engineering, Hagashimurayama, Report No.10-467(E), dated January 31, 2011, Test Report on Environmental Test, FOCAS 2000.
- National Maritime Research Institute, Oil Content Measurements for Type-approval Test (15ppm Bilge Alarm Type FOCAS-2000) dated June, 21 2011
- IPS Corporation, EMC Test Report – Electromagnetic Compatibility, 15ppm Bilge Alarm FOCAS - 2000, Report No. EMC11042 , dated 2011-02-22.

Marking of product

For traceability to this EC Type-Examination, each unit to be marked with;

- Manufacturer's name and trade mark
- Type designation
- Serial No.
- Mark of Conformity