



Marine & Offshore

Certificate number: 71631/A1 BV

File number: AP4982

Product code: 3953H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

ENDRESS+HAUSER CONDUCTA GmbH+Co.KG

Gerlingen - GERMANY

for the type of product

SENSORS / DETECTORS / ANALYSERS

Sensor for fluorescence measurement

Memosens CFS51

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

EC Code: 21

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 19 Oct 2027

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 13 Jan 2025,

Dirk Hoepfner

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=1llhcdрпи0>

BV Mod. Ad.E 530 June 2017

This certificate consists of 2 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

The sensor **Memosens CFS51** is used to measure polycyclic aromatic hydrocarbons PAHs (PAH) using fluorescence measurement.

Variants:

Type: CFS51- **aa b c d e f g** +LH

aa= Approval: AA, ** (two letters for non-ex or ex approval)

b= Application: 1

c= Process connection: A

d= Adaption cable: A, B

e= Cable length: 2, 3, 4, 7, 8

f= Sensor material: A

g= Seal material: 1

2. DOCUMENTS AND DRAWINGS :

- TI01630C/07/EN/02.22-00 dated 2022-05-18

3. TEST REPORTS :

- Phoenix Testlab: E220601E1 dated 23.06.2022; U220601E1 dated 28.07.2022

- Currenta: 19/0397 dated 2019-03-12

4. APPLICATION / LIMITATION :

4.1 - Bureau Veritas Rules for the Classification of Steel Ships

4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

4.3 - Bureau Veritas Environmental Category, **EC Code: 21**

4.4 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev 9.

4.5 - The installation shall comply with the Manufacturer's recommendation described in the above-referenced documentation.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The above mentioned sensors are to be supplied by **Endress + Hauser Conducta GmbH+Co. KG** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **Endress + Hauser Conducta GmbH+Co. KG** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products :

5.4 - For information, **Endress + Hauser Conducta GmbH+Co. KG** has declared to Bureau Veritas the following production site:

Endress + Hauser Conducta GmbH+Co. KG
Landsberger Str. 28
04736 Waldheim
GERMANY

6. MARKING OF PRODUCT :

- Maker's name or trademark

- Equipment type or model identification

- Date of manufacture and/or serial number

7. OTHERS :

7.1 - It is the responsibility of **Endress + Hauser Conducta GmbH+Co. KG** to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 71631/A0 BV issued on 19 Oct 2022 by the Society.

*** END OF CERTIFICATE ***