

MARINE DIVISION
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Certificate N°:
07460/B0 BV
The attached Schedule forms part of the certificate

File Number : AP 3048
Product Code : 3891H



CERTIFICATE OF TYPE APPROVAL

This is to certify that the product identified below was found to be in compliance with the relevant hereunder stated Regulations & standards

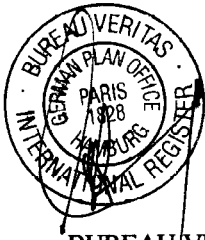
PRESSURE TRANSMITTERS / TRANSDUCERS

TYPE: 891.14.3 xx (ECO-1) and 891.24.3 xx (ECO-1).

MANUFACTURED BY:

WIKA Alexander Wiegand GmbH & Co.
Klingenberg - GERMANY

SPECIFIED REGULATIONS & STANDARDS :
BV Rules for the Classification of Steel Ships.



BUREAU/VERITAS HAMBURG

The Approval is valid until : 20.06.2008

At Paris la Défense, on : 20.06.2003

J.BENOIT
For the Secretary

This Certificate remains valid until the date stated on, hereunder, unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory into service.

This Certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested.

This Certificate is not valid without the stamp of the above mentioned by BUREAU VERITAS Inspection Center.

The manufacturer should notify BUREAU VERITAS of any modification or changes to the equipment in order to obtain a valid Certificate.

The latest published Regulations or Standards referred to, above, and the Marine Division General Conditions are applicable.



File Number : AP 3048

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Pressure Transmitter.

Type: **891.14.3 xx (ECO-1)**
 891.24.3 xx (ECO-1)

Power supply: 24V DC
 Output signal: 4 mA to 20 mA
 Ranges: 0-0.1 bar up to 0-10 bar
 0-16 bar up to 0-1000 bar
 0-10 bar up to 0-16 bar absolute pressure 891.14.300, 891.14.310 available
 Temperature range: -30°C to 80°C
 Degree of protection: IP 65 to IP 67.

For gaseous and liquid media that will not obstruct the pressure system or attack stainless steel parts.

2. DESIGN DRAWINGS and/or SPECIFICATIONS

Technical notice: PE 81.18
 Circuit diagram: 1171364-01, 1171330-02.

3. TYPE TEST REPORTS / LABORATORY RECOGNITION STATUS

Wika test report 891.14/24.3 xx 10/96.

4. MATERIALS and/or COMPONENTS REQUIRED TO BE TYPE APPROVED

Nil.

5. OTHER MATERIALS and/or COMPONENTS

Nil.

6. APPLICATION / LIMITATION OF USE

6.1 - BV Rules for the Classification of Steel Ships.

6.2 - Approval also valid for ships to be granted with the notations: AUT-UMS, AUT-PORT, AUT-CCS and AUT-IMS.

7. PRODUCTION SURVEY REQUIREMENTS

7.1 - Arrangements shall be made for a Society's Surveyor to carry out, on a periodic basis, visits of the Manufacturer's premises and product audits.

7.2 - Each equipment is to be supplied with manual(s) for installation, use and maintenance.

8. ON BOARD INSTALLATION & MAINTENANCE REQUIREMENTS

8.1 - The equipment, once installed on board ship, is to be tested in accordance with the above referred Regulations under the supervision of a Society's Surveyor.

8.2 - Each equipment is to be supplied with manual(s) for installation, use and maintenance.

9. MARKING FOR IDENTIFICATION

- Trade name.
- Date of manufacture and serial number.
- Equipment type number or model identification under which it was type-tested.

10. OTHERS

10.1 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the units at any time and that **WIKA Alexander Wiegand GmbH & Co., Klingenberg - GERMANY**, will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

10.2 - This Certificate supersedes the Type Approval Certificate N° 3891H/07460/A0 PRS0 BV issued on 16/03/1998 by the Society.

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