



Marine & Offshore

Certificate number: 54493/A0 BV

File number: AP4828

Product code: 3891H

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

Huba Control AG
Würenlos - SWITZERLAND

for the type of product

PRESSURE TRANSMITTERS / TRANSDUCERS

Pressure transmitter

Type: 711

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

EC Code: 31

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: 15 Feb 2024

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 15 Feb 2019,

Dirk Hoepfner



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.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Type **711** is a pressure transmitter for relative pressure measuring for liquids inside of tanks.

1.1 - Main characteristics:

Rated Voltage: 24V DC
 Degree of protection: IP68
 Pressure range: 0 - 0.1bar up to 0 - 16bar
 Sealing material: FPM / EPDM
 Output: 4-20mA
 Electrical connection: 3 - 300m
 Cable material: PE / FEP
 Case material: 1.4404, 316L / 1.4539, 904L

1.2 - Variants:

Type: 711. 9 **aa b c dd e f**

aa = Pressure range

01, 02, 03, 04, 05, 10, 11, 13, 15, 17, 30, 31

b = Sealing material

0, 1

c = Output

0

dd = Electrical connection

01 to 23

e = Cable material

0, 1

f = Case material

0,1

2. DOCUMENTS AND DRAWINGS:

- Data sheets: Huba Control type 711 No.:307244 dated 05/2018 and No: 119052 dated 10/2018
- Drawings: 307245 rev. a dated 22.01.2019; 306382 rev. d dated 17.10.2016; 306571 rev. f dated 28.06.2016
- SEV 16 ATEX 0120 dated 2016-07-04; IECEx SEV 16.0002 issue No.:0 dated 2016-07-04

3. TEST REPORTS:

- PAConsult Swiss: 17-1101-Rev.4 dated 23.05.2018
- Hansecontrol: 1801-0156801R01A dated 17.07.2018
- EMC-Testcenter: EMCKP3755A dated 2018-12-05
- Huba Control: 307250 ind. a dated 20.06.2018

4. APPLICATION/LIMITATION:

- 4.1 - Bureau Veritas Rules and Regulations 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: 31**
- 4.4 - Ex-certification is not covered by this certificate. Applications in hazardous areas are to be approved in each case according to the Rules and Conditions for Safe Use specified in a valid Ex-Certificate issued by a Notified or Recognised Certification Body.
- 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 products are to be supplied by **Huba Control AG** 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 - **Huba Control AG** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products:

**Huba Control AG
 Industriestr. 17
 5436 Würenlos
 SWITZERLAND**

- 5.4 - Equipment is to be supplied with manual(s) for installation, use and maintenance.

6. MARKING OF PRODUCT:

- Maker's name or trademark
- Equipment type or model identification
- Date of manufacture and/or serial number
- Ex marking, as relevant

7. OTHERS:

7.1 - It is the responsibility of **Huba Control AG - SWITZERLAND** 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.

*** END OF CERTIFICATE ***