



Marine & Offshore

Certificate number: 33487/C0 BV

File number: AP4392

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**

Type: 522 and 527

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

EC Code: 43S

*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: 09 Feb 2029****For Bureau Veritas Marine & Offshore,**

At BV HAMBURG, on 09 Feb 2024,

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.veristarnb.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=e2xuiulp1>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

The series **522...** and **527...** are pressure transmitter for absolute and relative pressure of gases and liquids.

1.1 - Main characteristics:

Rated Voltage: 24V DC
Output: 4-20mA, 0-10V
Degree of protection: IP65

1.2 - Variants:

Type: 522. 9 **aa S0 b c ddd**; (0-2.5bar up to 0-1000bar)

aa = Measuring range (bar, psi, MPA)
bar: 14, 15, 17, 30, 31, 32, 33, 40, 41, 42, 43, 54, 55, 57
psi: B4, B5, B7, C1, C2, C3, D0, D1, D2, D3, E4, E5, E7
MPA: G4, G5, G7, H0, H1, H2, H3, K0, K1, K2, K3, L4, L5, L7
b = Output signal
2, 3, 4
c = Electrical connection
1, 3, M, L
ddd = process connection
K01, 201, 301, 401, 801, 901, D01, E01

Type: 527. **a bb c 0 d e fff**; (0-1bar up to 0-60bar)

a = Measuring methode
8, 9
bb = Measuring range (bar, psi, MPA)
bar: 11, 12, 14, 15, 17, 30, 31, 32, 33, 40
psi: B1, B2, B4, B5, B7, C0, C1, C2, C3, D0
MPA: G1, G2, G4, G5, G7, H0, H1, H2, H3, K0
c = Sealing material
0, 1, 2
d = Output signal
2, 3, 4
e = Electrical connection
1, 3, M, L
fff = process connection
D11, E11, K11, 211, 311, 411, 811, 911

2. DOCUMENTS AND DRAWINGS:

- Drawings: 304356, 304521, 304523, 304553, 304557, 304672, 304789, 304806, 304809, 304855, 304856, 304857, 304865
For C0 version
- Data sheets: Huba Control type 522 dated 12/2023; Huba Control type 527 dated 09/2020
- Eurofins: SEV 10 ATEX 0145 dated 2021-12-16

3. TEST REPORTS:

- Brodarski Institute: YQ01-02-260 dated 2011-06-10
- HUBA Control: Prüfbericht EMV Qualifikationsprüfungen 0-10V, 4-20mA, ATEX dated 27.05.2011
- SGS Germany GmbH: E0UG0001 dated Jun 29, 2011
- SIEMENS AG: A5E03643148A dated 17.06.2011; A5E03643148D dated 29.06.2011; GL_P2XY_3 dated 28.06.2011; K004150_01_2012_E_B01 dated 02/28/12; K004150_01_2012_E_C01 dated 02/29/12
- VDE: FG43-1-151466 dated 2011-06-28
For C0 version
- EMC testcenter AG: EMCKP4904.1A dated 2021-12-13

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: 43S**
4.4 - The equipment fulfils the EMC requirements for installation on the Power distribution zone.
4.5 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev8.
4.6 - 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 Body.
4.7 - 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:

5.4 - For information, **HUBA Control AG** has declared to Bureau Veritas the following production site(s):

**HUBA CONTROL AG
Industriestr. 17
5436 Würenlos
SWITZERLAND**

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.

7.2 - This certificate supersedes the Type Approval Certificate N° 33487/B0 BV issued on 21 Jun 2018 by the Society.

*** END OF CERTIFICATE ***