



# TYPE APPROVAL CERTIFICATE

Certificate No:  
**TAA00001KB**  
Revision No:  
**1**

## This is to certify:

**That the Pressure Transmitter**

with type designation(s)  
**Jumo dTrans p20 (type 403025)**

Issued to  
**JUMO GmbH & Co. KG**  
**Fulda, Hessen, Germany**

is found to comply with  
**DNV rules for classification – Ships, offshore units, and high speed and light craft**

## Application :

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.**

<b>Temperature</b>	<b>D</b>
<b>Humidity</b>	<b>B</b>
<b>Vibration</b>	<b>A</b>
<b>EMC</b>	<b>B</b>
<b>Enclosure</b>	<b>C (IP66/IP67)</b>

Issued at **Hamburg** on **2023-01-16**

for **DNV**

This Certificate is valid until **2027-12-28**.

DNV local unit: **Hamburg – CMC North/East**

Approval Engineer: **Holger Jansen**

.....  
**Joannis Papanuskas**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



## Product description

Pressure transmitter : dTrans p20, Type 403025 / XXX with stainless steel covers.  
Rating : 24VDC, Range 11.5 to 28V DC.  
4-20 mA, also with HART option.

## Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV RU SHIP Pt. 4 Ch. 9 Sec. 1.  
Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification/ Special Condition for Safe Use listed in valid EC-type examination certificate SEV 09 ATEX 0138 X issued by a notified/recognized Certification Body.

## Type Approval documentation

Datasheet : 40302500T10Z001K000, Vers. 7.00  
Operating Manual: 40302500T90Z001K000, Vers.9.00  
Diagram composition: 40302500C40Z000 dwg. K000, Vers. 15  
Test reports: 203951/4, dated 2012-06-13  
EW-4169.61000-4-3.dTRANS p20.1.0 dated 2021-09-03  
EW-5741.60068-2-2.403025.1.0 dated 2022-10-10  
EW-5741.61000-4-2.403025.1.0 dated 2022-10-13  
Type Approval Assessment Report DNV dated 2022-11-16

## Tests carried out

Applicable Tests according to Class Guideline DNV CG-0339, August 2021

## Marking of product

Manufacturer name, type designation (403025), serial-number

## Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of this certificate.

END OF CERTIFICATE