

Certificate No: **TAA000013G**

TYPE APPROVAL CERTIFICATE

inis is to certify:		
That the Press	sure Transmitter	
with type design MBS 5100/51		
Issued to		
Danfoss A	A/S	
NORDBORG	, Denmark	
is found to comply with DNV GL rules for classification – Ships, offshore units, and high speed and light craft		
Application:		
Product(s) ap by DNV GL.	proved by this certificate is/are	accepted for installation on all vessels classed
Location classes:		
Temperature Humidity	D B	
Vibration	В	
EMC Enclosure	A B	
Issued at Høvik on 2017-02-24		
This Certificate is valid until 2022-06-30.		for DNV GL
DNV GL local st	ation: Fredericia	
Approval Engine	eer: Nils Jarem	
		Odd Magne Nesvåg
		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.



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Product description

MBS 5100 - Series

MBS 5150 – Series (with pulse-snubber)
Pressure transmitters in block construction.

Pressure range: between 0 - 1 bar and 0 - 600 bar

Pressure reference: relative or absolute

Power Supply: 24V DC
Output Signal: 4-20 mA
Accuracy: < +/- 0.3 % FS

Electrical connection: plug (EN 175301-803), Pg 9 / 11 / 13.5

Degree of Protection: IP 65

Place of manufacture

Danfoss (Tianjin) Ltd Wuqing Development Area, 9 Quanhui Road, 301700 Tianjin, China

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, 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 GL rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Type Approval documentation

Tests carried out

Applicable tests according to Standard for Certification No. 2.4, April 2006. Guidelines for the Performance of Type Approvals, Chapter 2 - Edition 2003

Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings

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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 the certificate.

END OF CERTIFICATE

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