Type Approval Certificate



This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No.

11 288 - 98 HH

Company

Danfoss A/S

Nordborgvej 81

6430 Nordborg, DENMARK

Product Description

Pressure Transmitter

Type

MBS 3100/3150; MBS 3300/3350; MBS 2100/2150

Environmental Category

D, H, EMC1

Technical Data / Range of Application

MBS xx50: versions with integrated pulse-snubber Power supply: 24V DC (nom.); 5V DC (nom.) for MBS 21xx

Output signal: 4-20 mA within range, increasing to 28 mA by over pressure

Various ranges from 0V DC up to 10V DC 10-90% of supply (ratiometric) for MBS 21xx

Pressure ranges: 0-1 bar to 0-600 bar

Operating temperature: MBS 31xx up to 85°C

MBS 33xx up to 100°C/125°C MBS 21xx up to 125°C

Wetted parts: stainless steel AISI 316 L
Enclosure material: stainless steel AISI 316 L
Pressure connection: various thread types
Pressure reference: absolute, relative gauge

Electrical connection: DIN-plug 43650, IEC 947-5-2 or cable AMP 173065

Vibration: 5 Hz to 30 Hz amplitude = 5.5 mm 20 Hz to 2000 Hz acceleration = 20 g

Test Standard

Guidelines for the Performance of Type Approvals, Chapter 2, Edition 2012

Documents

Test reports: TR 060GPM970929(01),(02), PM941208(01), TR 060G-97/02/24

Technical Report 2008-9027

Circuit diagrams: 060R3050, 060C0337, 060C0340

Data sheets: IK.21.H1.02, IC.PD.P21.C1.02, IC.PD.P21.L1.02

Remarks

None

Valid until 2019-02-10

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File No.

I.D.01

Hamburg, 2014-02-11

Type Approval Symbol

(GL

Germanischer Lloyd

Marco Rinkel

Dariusz Lesniewski

This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".