



Type Approval Certificate

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

Manufacturer	Danfoss A/S
Address	Nordborgvej 81, Nordborg, 6430, Denmark
Place of Production	Danfoss (Tianjin) Co. Ltd. No. 9 Quanhui Road, Wuqing Development Area, Tianjin, 301700, China
Type	Transmitters/Transducers
Description	Pressure transmitter
Trade Name	EMP 2
Application	Marine, Offshore and Industrial applications for use in environmental categories ENV1, ENV2, ENV3 and ENV4, as defined in Lloyd's Register Type Approval System, Test Specification Number 1 – December 2021.
Specified Standard	Manufacturer's specification IACS UR E10 Rev. 9 / 2023
Ratings	Nominal voltage supply: 24 VDC Output signal: 4-20 mA, two-wire Ambient temperature: -10 °C to 70°C Pressure range: -1 to 250 bar

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Pressure connections: G ¼, G ½ A, G 3/8 A

Additional Tests

Vibration test (5 Hz - 300 Hz, 4.0 g)
Low temperature test (-25 °C / 16 h)
Ingress protection (IP65)

Other Conditions

Specific Conditions of Use as stated in applicable Ex-certificates and the conditions of the LR Rules & Regulations for the Classification of Ships, Part 6, Chapter 2 shall be observed when installed in hazardous areas. The Ex-certification does not form part of this certificate.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR2002547TA-02

The Design Appraisal Document TSO-24-027402/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.