

TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MERB00003AR
Revision No:
1

This Certificate is issued by DNV UK Limited based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016 as amended.

This is to certify:

That the Propeller revolution indicator

with type designation(s)
DEIF RPM Indicator

Issued to
DEIF A/S
Skive, Denmark

is found to comply with the requirements in the following Regulations/Standards:
Regulation **MSN 1874 Amendment 9**,
item No. UK/4.21. SOLAS 74 as amended, Regulations V/18, V/19 & X/3, IMO Res. A.694(17),
IMO Res. MSC.36(63), IMO Res. MSC.97(73), IMO Res. MSC.191(79), IMO Res. MSC.302(87)

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-11-26**.

Issued at **London** on **2024-11-27**

DNV local unit:
Denmark CMC



for **DNV UK Ltd.**

Approval Engineer:
Jörg Rebel

Approved Body No.: **0097**

Mydlak-Röder, Christine
MER Service Responsible



**Maritime &
Coastguard
Agency**

UK Approved Body Authorised
by the MCA

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.

During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved Body.

"The Mark of Conformity" may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body. In case limitations of use apply, these should be indicated in the Annex.

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

The RPM indicators may consist of the following equipment:

XL72, XL96, XL144, XL192, BRW-2, BW144, BW192, XDi96, XDi144, XDi192

optional: XDi extension modules AX1 analogue, DX1 digital, NX1/NX2 serial

Software versions: XDi D & M platform 1: 1.0x.x and XDi D, M & N platform 2: 2.0x.x,
 AX1 Modul: 1.0x.x,
 DX1 Modul: 1.0x.x,
 NX1/NX2 Modul: 1.0x.x

Application/Limitation

none

Tests carried out

- Environmental and EMC testing: IEC 60945 (2002) incl. Corrigendum 1 (2008)
- Interface testing: IEC 61162-1 (2016), IEC 61162-2 (1998)
- Presentation testing: IEC 62288 (2021)
- Performance testing: ISO 22554 (2015)

Note: The DEIF RPM Indicator does not issue alerts, hence, testing according to IEC 62923-1/-2 is deemed as not being applicable.

Marking of product

According to IEC 60945, Sect.4.9:

The product to be marked with following information, where practicable:

- Identification of the manufacturer,
- Equipment type number or model identification under which it was type tested,
- Serial number of the unit,
- Compass safe distance.

Alternatively, the marking may be presented on a display at equipment start-up, and in case of fixed equipment compass safe distance may be given in the equipment manual.

Type Examination documentation

DNV No.	Document ID	Rev.	Description
13	4910211100	2016-12-16	Report: EPC 679 XDi Test Data IEC 60945
12		2014-06-12	Report: CAN Bus performance test
10		2015-03-27	Report: Test Report Flicker evaluation XDi
8		1.1	Report: Test of a Maritime navigation and radiocommunication equipment and systems IEC 61162-1/-2
3	4921250067D	D	XDi data sheet 4921250067 UK
2	4189350046D	D	XDi quick guide 4189350046 UK
1	4189350049B	B	Manual: Designer's Handbook
-	Miscs		E502501-2 dated 05-11-2004, GL Test Report 2011-12-14, Deif IPA no. 0326, Delta Test Report DANAK-1911248 dated 2011-01-25

END OF CERTIFICATE