

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:  
**MEDB00000JW**  
Revision No:  
**4**

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

## This is to certify:

that the **Track control system (TCS)**

with type designation(s)  
**TECDIS TCS**

issued to

**Telko AS**  
**TJØME, Norway**

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2023/1667**,

**item No. MED/4.33. SOLAS 74 as amended, Regulations V/18 & V/19, IMO Res A.694(17), IMO Res MSC.74(69),  
IMO Res MSC.191(79), IMO Res MSC.302(87)**

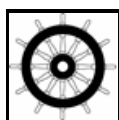
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-08-19**.

Issued at **Høvik** on **2024-08-26**

DNV local unit:  
**East & South Norway CMC**

Approval Engineer:  
**Arve Lepsøe**



Notified Body  
No.: **0575**

for **DNV AS**

**Mydlak-Röder, Christine**  
**Head of Notified Body**

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2023 dated August 21st, 2023.

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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



**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

TECDIS TCS track control system consists of:

- Telko TECDIS, ECDIS
- Furuno FAP-3000, Heading Control System (HCS)

TECDIS TCS is consisting of the following components:

ECDIS: TECDIS components	model	comment
Computer	Ref. certificate, MEDB00001B0, rev.10 or higher	Several component configurations are available
Monitor	Ref. certificate, MEDB00001B0, rev.10 or higher	
Keyboard	Ref. certificate, MEDB00001B0, rev.10 or higher	
Trackball	Ref. certificate, MEDB00001B0, rev.10 or higher	
Serial interface unit	Ref. certificate, MEDB00001B0, rev.10 or higher	Location: protected
Software Version	4.8.3.x (x≥9)	

and

HCS: FAP-3000 components	model	comment
Control and Operator Unit	MIP241	Location: protected
Electronic Unit	AEU611	Location: protected
Software Version	0.02.x (x≥16)	

### Application/Limitation

- The TECDIS TCS complies with the IMO requirements for Category C Track Control System for ship's speed up to 30 knots.
- The equipment identified in the product description forming the TECDIS TCS shall hold valid type approval certificates.
- The TECDIS TCS shall be connected to an alarm transfer system for transfer of back-up navigator alarms.
- The TECDIS TCS shall be connected to sensors as described in manufacturers Track Control Mounting instructions
- The TECDIS TCS shall be verified and tested onboard according to manufacturer's installation instructions.
- The steering mode selector switch/ override facility shall be installed in the vicinity of the main conning position (the workstation in command of track control).

### Type Examination documentation

DNV No.	Doc. Ref.	Rev.	Description
1	Feb.2007	05	Report: Telko, Conformance test of ECDIS and TCS
102	13th Jan.2015		Report: Telko, Test report for 2nd conformance test of TCS
116	MAN10805	3	Manual: EMRI, Instruction Manual for SEM300 and FAP-3000 Autopilot
118	MEDB00003SJ	5	Certificate: DNV, EMRI SEM300/ Furuno FAP-3000 HCS MED-B Certificate
121		16	Manual: Telko, TECDIS list of alerts
122		3.12	Manual: Telko, TECDIS Installation Manual
123	2024-08-07		Manual: Telko, TECDIS User Guide AMD- Track Control
124		1	Report: Telko, TECDIS and Furuno FAP-3000 TCS Performance Test
125	2024-08-12		Report: Telko, Conformance test of TECDIS TCS with Furuno FAP-3000
126	MEDB00001B0	10	Certificate: DNV, Telko TECDIS MED-B Certificate

### Tests carried out



Job ID: **344.1-000651-12**  
Certificate no.: **MEDB00000JW**  
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- Performance tests: IEC 62065 (2014)
- Presentation of information: IEC 62288 (2021)
- Environmental tests: IEC 60945 (2002) incl. Corr. 1 (2008)
- Serial interface tests: IEC 61162-1 (2016)
- Bridge Alert Management (BAM): IEC 62923-1 (2018) and IEC 62923-2 (2018)

### **Marking of product**

The type designation and name and contact address of the manufacturer shall be affixed visibly, legibly and indelibly to the product. In addition the product shall be marked with serial number, safe distance to magnetic compass, power consumption and/or supply voltage.