



EC TYPE EXAMINATION (MODULE B) CERTIFICATE (EC-US MRA)

No. **03-001929/031632**

THIS IS TO CERTIFY:

That Croatian Register of Shipping did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with requirements of Marine Equipment Directive (MED) 2014/90/EU, subject to any conditions in the schedule attached hereto.

TYPE AND DESCRIPTION OF PRODUCT

Heading Control System (HCS)

with type designation **AP70 MK2**

NUMBER AND ITEM DESIGNATION (in accordance with Annex of Regulation (EU) 2022/1157)

MED/4.16 – Heading Control System (HCS)

MANUFACTURER:

NAVICO RBU ITALIA S.r.l.

Via Romita 26, 50025 Montagnana VP, Firenze – ITALY

REGULATIONS AND STANDARDS (in accordance with Annex of Regulation (EU) 2022/1157)

SOLAS 1974 as amended, Reg. V/18, Reg. V/19.

IMO Res.A.342(IX), IMO Res.A.694(17), IMO Res.MSC.191(79), IMO Res.MSC.64(67) Annex 3 and IMO Res.MSC.302(87).

USCG Module B number: 165.110/EC2489/03-001929

NOTICE:

- Further details of the product and conditions for certification are given overleaf.
- This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.
- Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply.
- 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 Annex II of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.
- In case limitations of use apply, these should be indicated of in the Schedule of Approval.
- This product has been assigned **U.S. Coast Guard Module B number** in accordance with the European Council Decision 2004/425/EC dated 21 April 2004 on the conclusion of an Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment, as amended by Decision No.1/2018 of the Joint Committee established by the Agreement of the European Community and the United States of America of 18 February 2019.



Issued by Croatian Register of Shipping, notified body number 2489.

This certificate is valid until: **2025-07-01**

Place and date: **Split, 2023-01-05**



Signature
Signature
Marinko Popović, dipl.ing.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

AP70 MK2 Heading control system consists of the following components:

| | Item name | Description | SW ver. | Location |
|----|---|---|--|---|
| 1. | Operator unit: AP70 MK2 | Control Unit | 2.1.0.x | Exposed |
| 2. | Remote operator units: QS80 (optional) FU80 (optional) NF80 (optional) R3000X (optional) JS10 (optional) S35 (optional) S9 (optional) | Non follow up quick stick lever Follow up lever Non follow up lever Portable remote control Non follow up lever Non follow up lever Non follow up lever | 1.3.xx 1.3.xx 1.3.xx NA NA NA NA | Exposed Exposed Exposed Portable Protected Exposed Exposed |
| 3. | Computers: AC80A or AC80S or AC85 and with max 5** optional computers of any combination below AC80A AC80S AD80 SD80 SG05 PRO *** AC85 | With AD80 and SI80 board With SD80 and SI80 board With SI80 and optional boards * With AD80 and SI80 board With SD80 and SI board With AD80 board With SD80 board Network gateway (Simnet/CAN for steering system) With SI80 and optional boards* | 1.3.xx 1.3.xx 1.3.xx 1.3.xx 1.3.xx 1.3.xx 1.3.xx 1.3.xx 1.3.xx | Protected Protected Protected Protected Protected Protected Protected Protected Protected |
| 4. | Interface units: CZone SI80 | Network interface (Simnet) With SI80 interface board (serial) | 2.x 1.3.xx | Protected Protected |

NOTE * - AC85 may have any combination of optional boards – AD80 (max 3) / SD80 (max 3) / AC70 (max2),

NOTE ** - Max 2 if SG05 PRO is installed,

NOTE*** - Max 1.

2. APPLICATION/LIMITATION OF USE

HCS AP70MK2 is tested for compliance with BAM requirements – IMO Res.MSC.302(87).

System is to be installed in a protected environment.

3. DESIGN DRAWINGS AND SPECIFICATIONS

AP70 MK2 – System Block Diagram , item number-AP70MK2-SYS-001;

AP70MK2 – Concept Freeze, item number-AP70MK2-MEC-001;

AP70 MK2 – Operator Manual, item number - 988-12375-003;

AP70 MK2 – Installation Manual, item number - 988-12374-003;

FU80, NF80, QS80 – User Guide, item number - 988-10199-004;

RF70N Rudder Feedback – Instruction, item number - 988-10617-001;

Simrad GI51 Gyro Interface – Manual, item number - 20221594/Cb;

Simrad Precision-9 Compass, item number – 985-11190-001.