CROATIAN REGISTER OF SHIPPING

Certificate No. **03-001989**/*031693*

TYPE APPROVAL CERTIFICATE

This is to certify that this product complies with the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products.

TYPE AND DESCRIPTION OF PRODUCT:

Multipurpose Display Indicators – SIMRAD I3005/I3007 sw 2.1.x

Applied for:

Propeller RPM	***Rudder Angle Indicator***	***Speed Indicator***	***Heading Repeater Indicator***
Propeller PITCH	***ROT Indicator***	***Wind Indicator***	**-**

MANUFACTURER:

NAVICO RBU ITALIA S.r.l.

Via Romita 26
50025 Montagnana VP, Firenze
ITALY

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

Croatian Register of Shipping: **Rules for the classification of ships,**
Part 12. – Electrical Equipment,
Part 13. – Automation

IACS UR E10

FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.

APPROVAL IS VALID UNTIL: **2027-11-12**

Place and date: Split, 2023-12-05 **Seal**

Marinko Popović, dipl.ing.

NOTE: This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Croatian Register of Shipping of any modification or changes to the product in order to obtain a valid certificate.

DETAILED PRODUCT DESCRIPTION:

Simrad I3005/I3007 is a multifunction Indicator with different applications for machinery and bridge installations. There is a common software in use which during installation may be configured for different applications:

Propeller RPM, Propeller PITCH, Speed Indicator, Rudder Angle Indicator, ROT Indicator, Wind Indicator, Heading Repeater Indicator

There are several optional units MX610/MX612 Junction Boxes for a more complex display interconnection.
Input information to the display unit may be: NMEA0183 / Analog (voltage, current, frequency) / Digital.

APPLICATION / LIMITATIONS:

System is to be installed in a protected environment.
I3005/I3007 shall be supplied by 24V DC in accordance with Installation Manual.

TYPE APPROVAL DOCUMENTATION:

	Document title	*Identification number*	*Revision index*
1.	I3005 Display – IEC/EN60945:2002 + Cor. 1:2008 NEMKO AS – Test Report	E19102.00	2019-07-10
2.	I3007 Display – IEC/EN60945:2002 + Cor. 1:2008 NEMKO AS – Test Report	E19106.00	2019-07-10
3.	I3005 Display Performance NEMKO AS – Test Report	373270r00	2019-07-05
4.	I3007 Display Performance NEMKO AS – Test Report	368173r00	2019-07-05
5.	I3007 Display – Acoustic noise and signal test NEMKO AS – Test Report	373068-R1TRFEMC	2019-06-06
6.	I3005 Display – Digital Interface IEC 61162-1:2016 (Ed. 5.0), IEC 61162-2:1998 (Ed. 1.0), ITU-T V.11:1996, BSH Test Report	454.Display/Navico I3005 & P2005/1	2019-07-10
7.	I3007 Display – Digital Interface IEC 61162-1:2016 (Ed. 5.0), IEC 61162-2:1998 (Ed. 1.0), ITU-T V.11:1996, BSH Test Report	454.Display/Navico I3007 & P3007/1	2019-07-10
8.	SI80 Junction Box (MX610/MX612) - IEC60945 - EMC EMC Technologie Test Report	120414.1	2012-06-06
9.	SI80 Junction Box (MX610/MX612) - IEC60945 – Environmental DnV Test Report	2012-3214	2012-05-29
10.	SIMRAD I3005 - Installation Guide	988-12390	001
11.	SIMRAD I3007 - Installation Guide	988-12391	001
12.	I3005 Display – IACS UR E10 TesLab – Test report	239305E	2023-11-09
13.	I3007 Display - IACS UR E10 TesLab – Test report	239304E	2023-11-09

MARKING OF PRODUCT:

The Manufacturer and Type Designation of the product, serial number, date of manufacture, supply voltage and software version.

CONDITIONS FOR CERTIFICATION:

For each application on board CRS classed vessels complete technical documentation and drawings shall be submitted for examination and approval prior installation on board.

This approval remains valid for subsequent minor software amendments, as allowed by the SW 2.1.x format (x=a numeral), where written details of any such modification have been submitted to and accepted by the approvals authority.

END OF CERTIFICATE