

LNA – Lifeboat Navigation Assistant

Navigation Assistant for Lifeboats

The Scanmatic Lifeboat Navigation Assistant (LNA) assists the lifeboat pilot in the emergency escape procedure, providing navigation information from the very moment the free-fall or conventional lifeboat hits the water.

Traditionally, navigation systems aboard lifeboats do not provide any guidance to safe escape direction after launch. The LNA brings easy to read, visual information to the pilot, helping him choose a safe direction away from the escape point also in limited visibility due to smoke, fog, darkness or harsh weather conditions.

The system comprises of the LNA main unit (SM2851) connected to the LNA heading display (SM2852). These components are also part of the Scanmatic system “LNA with AES” (Automatic Escape System) which in addition includes an electrohydraulic servo steering system, providing AES functionality and easier steering, and an AIS system for heightened situational awareness.

The LNA’s “black box functionality” logs 6 DOF angles and accelerations at 100 Hz for 1 hour from the time of life boat launch. The log file can be downloaded to a PC for analysis through the USB interface.



The safe direction is easily identified by large arrows and degree indicators.

- Robust – made for rugged use and lifeboat drop environments
- Virtually maintenance free
- Self-check diagnostics
- 20 seconds start-up time
- Continuous logging and storage of up to one hour of sensor data
- Provides automatic escape steering if interfaced with an electrohydraulic servo steering system
- More than 10 years expected life time

Technical specifications:

Electrical interface:

Power supply:	10-30VDC
Internal fuse:	1.5 A
Current consumption:	
1 display	
o Typical	60 mA
o Max	110 mA
2 displays	
o Typical	80 mA
o Max	180 mA



Physical properties:

Weight Main Unit:	1.3 kg
Size Main Unit:	210 x 150 x 60 mm
Weight Display:	0.3 kg
Size Display:	110 x 110 x 30 mm

Sensor stability and accuracy:

Direction drift max:	20° / 10 min
Direction drift typical:	10° / 10 min
Acceleration-error typical:	0.1 g

Interface:

USB 2.0 interface:	Data log transfer
RS-485:	Display communication
Relay controls:	AES functionality



Logging capacity:

Logging to internal FLASH:	6 DOF angles and accelerations at 100Hz for 1 hour after launch
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Environmental:

Temperature range:	-25°C ... +55°C
Encapsulation:	IP56 (According to DNV-OS-E406)

Miscellaneous:

Start-up time:	20 s
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For more information, please contact:

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