

4000 GMDSS

GMDSS Systems for Worldwide Communications and Safety



Sperry Marine

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A4 TLX/TLX/C Solution

4000 GMDSS

Less equipment—more communication

Northrop Grumman Sperry Marine has set new standards for size and performance in the GMDSS market with the compact 4000 GMDSS console, integrated SSB, DSC and telex.

With the Sperry Marine 4000 GMDSS onboard you not only fulfill all the relevant requirements, you have also made a sound investment in both safety and efficiency; in short, you have invested in the future.

Modular flexibility

No two customers are exactly alike, and requirements vary from vessel to vessel. Therefore, the Sperry Marine 4000 GMDSS solution is available in a configuration to match your actual communication and safety needs exactly, regardless of whether you operate in sea area A1, A2, A3 or A4.

As standard, the system console is delivered with emergency light, battery panel, loudspeaker and connection board. The console is fitted with removable front plates, which greatly facilitates service and maintenance procedures, and the modular structure of the whole system means that it can readily be extended and altered.

Furthermore, all the equipment in the 4000 GMDSS range complies with the standard dimensions, making rack mounting in an existing bridge console a simple and straightforward procedure.

Flexible GMDSS Solutions

The Sperry Marine MF/HF product family offers several GMDSS solutions fulfilling specific needs.

4000 150W

The 4000 150W MF/HF PEP transceiver with integrated DSC complies not only with the relevant GMDSS safety requirements, it has also set new standards for compactness, reliability, versatility and user friendliness.

- Transceiver unit HT4610 including transmitter, receiver with scanning function, a 1-channel dedicated DSC watch receiver and 24V DC power supply
- Control unit HC4500B
- Antenna tuning unit HA4615

The 4000 150W MF/HF transceiver satisfies the MF/HF requirements for GMDSS A2. In combination with two Inmarsat-C transceivers the system also satisfies the MF/HF requirements for GMDSS A3.



4000 250W

The very flexible 250W MF/HF PEP transceiver with integrated DSC watch receiver can be delivered in a number of different combinations in order to fulfill the individual needs onboard different types of vessels.

- Control unit HC4500
- Antenna tuning unit HA4525
- Transceiver unit HT4520 in the following versions:
 - 250W transceiver unit with built in 1-channel DSC watch receiver and radio telex modem (D1T)
 - 250W transceiver unit with built in 6-channel DSC scanning watch receiver and radio telex modem (D6T)
 - 250W transceiver unit has a built-in AC power supply and battery charger as standard

The 4000 250W MF/HF satisfies the MF/HF requirements for GMDSS A2, A3, and A4.

4000 500W

The very powerful 4000 500W MF/HF PEP transceiver with integrated DSC watch receiver can be delivered in a number of versions for flexible solutions.

- Control Unit HC4500
- Antenna tuning unit HA4555
- External AC power supply PS4650
- Transceiver unit HT4550, in the following versions:

- 500W transceiver unit with built-in 1-channel DSC watch receiver and radio telex modem (D1T)
- 500W transceiver unit with built-in 6-channel DSC scanning watch receiver and radio telex modem (D6T)

There are two options available for radio telex for the 4000 250W and 500W. One very cost effective solution consist of only a printer and a keyboard, and another solution includes a dedicated Data Terminal DT4646E.

The 4000 500W MF/HF satisfies the MF/HF requirements for GMDSS A2, A3, and A4.

RT4822 VHF DSC

Detailed requirements for carriage and power pack-up for Sea Areas and contained within the IMO and Flag Requirements.

Sea Area A1

The Sperry Marine RT4822 VHF DSC satisfies all requirements for Sea Area A1 and can be installed on a table, hung from the deck or built-in flush to a bridge console. The mounting bracket is included.

Sea Area A2

The Sperry Marine RT4822 VHF DSC and HC4500 MF/HF B150W include a battery

panel, loudspeaker, emergency light and a connection board. This system satisfies all requirements for Sea Area A2.

Sea Area A3 TLX/C

This solution is used for Sea Area A3 and occasionally for Sea Area A4. The HC4500 MF/HF includes: controller, H2095C SAT-C transceiver unit, battery panel, loudspeaker, emergency light and DT4646E data terminal. The H1252B printer on the console feeds paper from a roll in the console, which also contains the connection board. Next to the console are the keyboard and the radio telex printer for GMDSS radio telex operation.

Sea Area C/C

The Sperry Marine GMDSS dual SAT-C solution for Sea Area A3 is a three-section console containing a Sperry Marine HC4500B MF/HF controller, two H2095C SAT-C transceiver units, battery panel, loudspeaker, emergency light, two DT4646E with keyboards and printers. Printer paper is fed from a role in the console, which also contains the connection board.

A4 TLX/TLX/C

The dual radio telex solution with optional SAT-C for Sea Area A4 is a four-section console containing two HC4500 MF/HF control units, H2095C SAT-C transceiver, battery panel, loudspeaker, emergency light, three DT4646E data terminals with keyboards and printers. Printer paper is fed from a role in the console, which also contains the connection board.



A2 Solution



RT4822 VHF DSC - A1



Dual Sat C System



A3 GMDSS System

Sperry Marine

www.sperrymarine.northropgrumman.com

For more information, please contact:

AMERICAS

Charlottesville, VA USA

Tel: +1 434-974-2000

Fax: +1 434-974-2259

Melville, NY USA

Tel: +1 631-719-4736

Fax: +1 631-719-4630

ASIA

China, Shanghai

Tel: +86-21-5836-9978

Fax: +86-21-5836-9979

Hong Kong, Sheung Wan

Tel: +852-2581-9122

Fax: +852-2581-9967

Japan, Tokyo

Ph: +81 (0)-3-3863-7401

Fax: +81 (0)-3-3863-7455

Singapore

Tel: +65-6274-3332

Fax: +65-6271-3339

South Korea, Busan

Tel: +82-51-247-7455

Fax: +82-51-247-7454

Taiwan, Kaohsiung

Tel: +886-7-331-7786

Fax: +886-7-331-7924

CANADA

Nova Scotia, Halifax

Tel: +1 902-468-9479

Fax: +1 902-468-9480

EUROPE

Belgium, Antwerp

Tel: +32-3-233-1433

Fax: +32-3-225-0553

Denmark, Copenhagen

Tel: +45-77-33-6633

Fax: +45-77-33-6611

Germany, Hamburg

Tel: +49(0)40 299 00-0

Fax: +49(0)40 299 00-146

Holland, Vlaardingen

Tel: +31(0)-10-4451600

Fax: +31(0)-10-4345015

Norway, Bergen

Tel: +47-55-94-9494

Fax: +47-55-34-5227

United Kingdom, New Malden

Tel: +44(020 8329 2000

Fax: +44(020 8329 2415

Weights & Dimensions

RT4822 VHF DSC

Dimensions: 100 mm x 200 mm x 176 mm (H x W x D).

Weight: 1 kg.

RT4822 VHF DSC and HC4500 MF/HF controller

Dimensions of the console: 405 mm x 445 mm x 375 mm

(H x W x D). Weight*: 22 kg.

A3 TLX/C

Dimensions of the console with a top mounted printer are:

500 mm x 770 mm x 375 mm (H x W x D). Weight*: 52 kg.

A3 C/C

Dimensions of the console with a top mounted printer are:

500 mm x 1170 mm x 375 mm (H x W x D). Weight*: 66 kg.

A4 TLX/TLX/C

Dimensions of the console with a top mounted printer are:

500 mm x 1640 mm x 375 mm (H x W x D). Weight*: 80 kg.

* Weight = Total weight of console and units



Sperry Marine, with worldwide headquarters in Charlottesville, VA, and major engineering and support offices in Melville, NY, New Malden, England, and Hamburg, Germany, is part of the Northrop Grumman Electronic Systems sector.

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