

GMDSS Radio Station

for Sea Area A3

Radio console with 150W or 250 W MF/HF,
2 Inmarsat Mini C and VHF according to SOLAS/
IMO and ITU regulations, ETS and IEC standards



GMDSS Radio Station

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Raytheon Anschütz GMDSS radio stations have been designed to meet all international standards and requirements of the user, ensuring easy ergonomic operation. The consoles are tailor-made according to the needs of our customers, because each project is different, just like their owners. Therefore it is also possible to integrate a Fleet 77 or Fleet Broadband system into the radio console.

The A3 consoles are equipped with one VHF-DSC (semi-duplex, optional full-duplex) radio. A second VHF is foreseen in the conning position of the vessel, one MF/HF-radiotelephone 150W (optional 250W) with DSC receiver and two Inmarsat C systems with full coverage of Inmarsat C services.

For greatly facilitated service and maintenance the consoles are fitted with service doors. The pre-wiring consoles minimize installation time on existing vessels and new builds and contain battery panels, power alarm monitoring, emergency light and power switch (main / emergency). Alarm muting button, large tactile buttons knobs for volume and squelch are standard features of the Raytheon Anschütz GMDSS Radio Station A3.

VHF Radiotelephone

The semi-duplex (optional full-duplex) DSC radio can store and replay incoming calls (up to 90 sec). So a missed message can simply be heard again. A standard interface for Voyage Data Recorder is included.

MF/HF Radiotelephone

A 150 W or 250 W radio (with 1 channel watch receiver) for voice communication. Radio-telex (direct typing) and 6 channel watch receiver can be added optional.

Inmarsat Mini C

One or two Inmarsat communication system (s) including telex, e-mail, SMS, EGC reception and distress message handling.

The operation control is done via the 10.4 inch message terminal / keyboard. The transceiver is coming with integrated GPS receiver of own ship's position data.

For the secondary Inm Mini C system the LRIT (Long Range Identification and Tracking) function is included. The upgrade for SSAS is also possible.

Control Unit MF/HF CU 5100

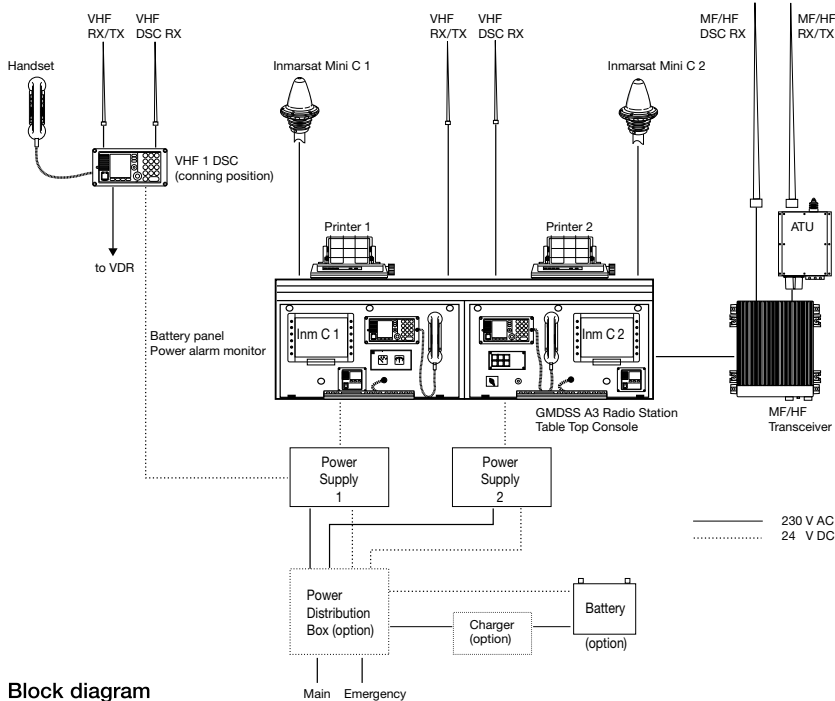


Control Unit VHF RT 5022



GMDSS Radio Station A3 according to SOLAS/IMO and ITU regulations, ETS and IEC standards





Block diagram

Technical Data

MF/HF Station for voice and DSC (Digital Selective Calling) data (optional radio-telex)

- Frequency range**
- Rx 150 kHz to 30 MHz
 - Tx 1605 kHz to 30 MHz
- Output power**
- 150 W / 250 W PEP
- Modulation**
- SSB - J3E
 - DSC - J2B
 - AM - A3E

VHF Station

RT5022 (semi-duplex) VHF-Radio with integrated DSC-watch-keeping receiver

- Frequency range**
- All international and US channels up to 30 private channels
 - 149.3 MHz to 163.7 MHz
- Output power**
- 25 W PEP / 1W
- Modulation**
- G3E for telephony
 - G2B for DSC

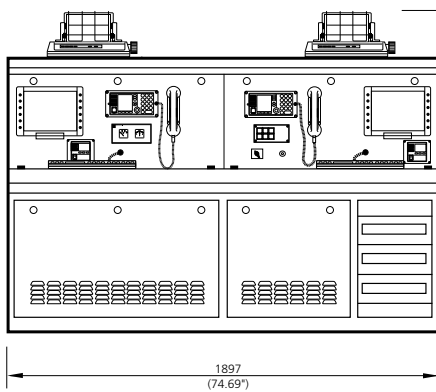
Satcom Inmarsat Mini C

Inmarsat Mini C-Ship Earth Station with automatic Message- and EGC (Enhanced Group Calling) -Reception. Integrated GPS Receiver

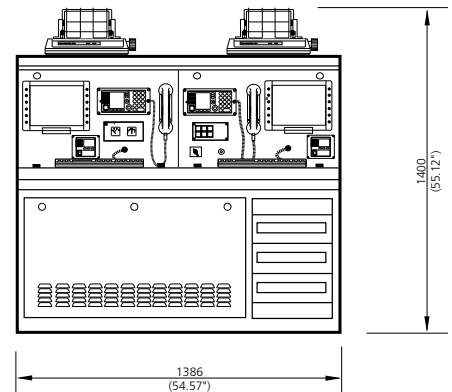
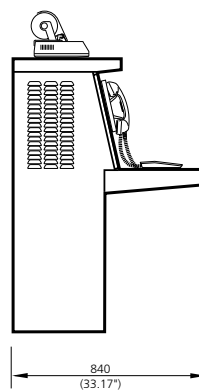
- Frequency range**
- Rx 1525.0 MHz to 1559.0 MHz
 - Tx 1626.5 MHz to 1660.5 MHz
- Data rate**
- 600 Bit per sec.

Specification Standards

Complies with the
Directive 96/98/EC and
Directive 2002/75/EC



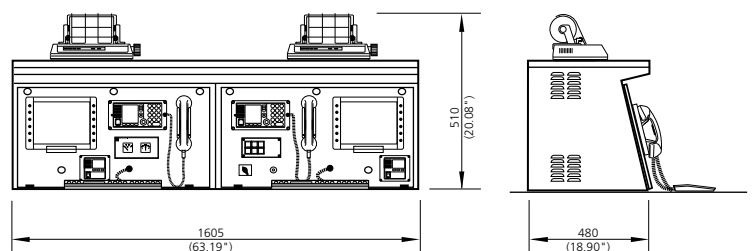
GMDSS A3 Radio Station Large Deckstand



GMDSS A3 Radio Station Small Deckstand

Your Benefits

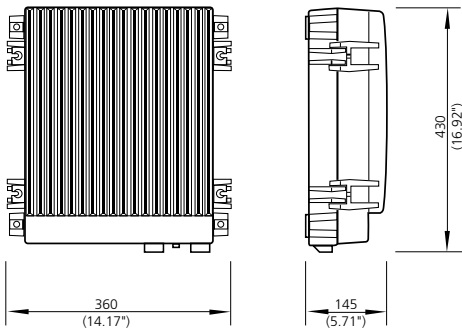
- ruggedized compact design
- fast and easy installation
- compact VHF/DSC-radio for conning position
- easy and intelligent operation
- integrated power and alarm monitoring
- built-in DSC and DSC watch-keeping receiver
- worldwide service network



GMDSS A3 Radio Station Table Top

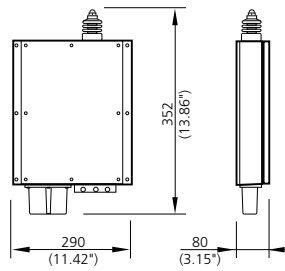
Parts for external mounting

either 150 W MF/HF Transceiver or 250 W MF/HF Transceiver
(table top console external)

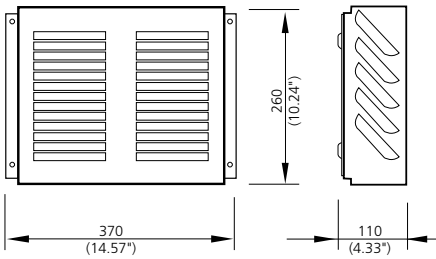


150 W MF/HF Transceiver
Weight 19 kg

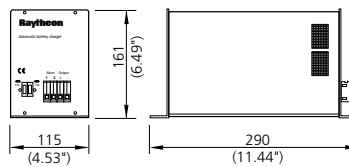
for antenna deck installation



Antenna Tuning Unit (ATU)
Weight 3.3 kg

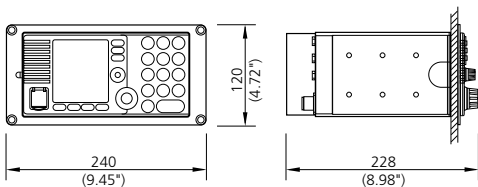


AC Power Supply
Weight 5 kg

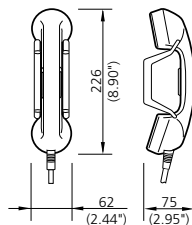


Battery Charger
Weight 3.5 kg

in conning position

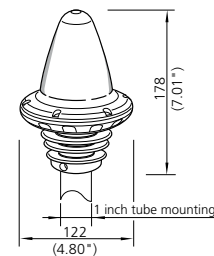


Control Unit VHF RT 5022
Weight 3.6 kg



VHF-Handset
Weight 0.4 kg incl. holder

on mast top



Inmarsat C TT-3005 M Antenna
Weight 0.9 kg

Subject to change due to technical developments without notice.