

GM600

The Latest GMDSS Functionality in a Very User-Friendly Package









GMDSS WHF



Class A DSC VHF Radio with Wide Viewing Angle Colour TFT LCD



GMDSS VHF Radio with Class A DSC

The GM600 is a GMDSS (Global Maritime Distress and Safety System) VHF radiotelephone

which can be used as a part of GMDSS system equipment required by SOLAS or many domestic maritime regulations. When installed with the GM800 MF/HF radio, GM600 and GM800 radios provides an ideal GMDSS VHF, MF and HF radio station.

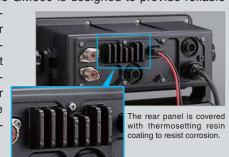


Meets MED "Wheel Mark" Requirements

The GM600 meets the Marine Equipment Directive 2014/90/EU on European marine equipment require-

ments and has passed rigorous environmental testing and quality assurance process. The GM600 is designed to provide reliable

operation and long-lasting durability under harsh maritime environments. In fact, the front panel has IPX7 protection (1 m depth of water for 30 minutes) and the rear panel has corrosion resistance coating.





Meets ITU-R M.493-13 DSC

The built-in DSC provides automated distress and safety communication. The dedicated DSC

watch-keeping receiver continuously monitors the DSC calling channel (CH70). A total of 100 MMSI numbers for DSC call (Individual ID: 75, Group: 25) can be stored with a 10-character ID name. Using the DSC Task mode provides straight-forward DSC operation.

DSC Task Mode Operation Example When receiving a DSC call, a

pop-up window appears. Push [Accept] button to send the acknowledgement to the calling station.



After sending or receiving a DSC call, the radio enters the DSC Task mode. Push [Next Task] button to select an other task. Up to 7 tasks can be stored.





4.3 inch Wide Viewing Angle Colour TFT LCD

The 4.3 inch colour TFT LCD provides almost 180 degree very wide viewing angle and displays high resolution characters and function icons. Even when the radio is installed to the instrument panel, the op-

when the radio is installed to the instrument panel, the operator can clearly recognize the display information from various viewing angle. The night mode display ensures good readability in a dark place.





Backlight settings screen

Provides Loud, Clear Audio

The GM600's internal speaker enhances intelligibility of received calls. By adopting a new waterproof paper speaker cone, the speaker provides superior sound quality with a wide frequency range and a flat frequency response. In addition, the radio delivers powerful 10 W audio when connected to an external speaker.



Intuitive User Interface

A combination of the directional keypad and soft keys provides simple operation. The main 12 func-

tions are assigned to soft keys (at the bottom of the display) and toggled with the left and right keys. The clearly labelled keypad provides straightforward entry. The CH16 button offers one-touch access to the CH16.



DC-DC Converter PS-310

The optional DC-DC converter PS-310 supplies a stable 12.6 V of power to the GM600 from either a

12 V or 24 V power source (depending on version) and provides

a floating ground connection. The PS-310 protects the radio from momentary power interruption. The PS-310 must be used with the GM600 for MED certification compliance.



PS-310 DC-DC converter

And more

- IEC 61162-1 interface for GNSS receiver
- Supports new four-digit marine channels* effective from January 1st, 2017
- * Following additional channels can be used: 1078, 2078, 1019, 2019, 1079, 2079, 1020 and 2020.

GM60

Weight: 1.6 kg (approx.)

Weight: 930 g (approx.)

DIMENSIONS

250 mm

SPECIFICATIONS

		_
GENERAL		
Frequency range	Tx	156.025-161.600 MHz
, , ,	Rx	156.025-162.000 MHz
	DSC	156.525 MHz
Usable channels		INT channels
Type of emission		16K0G3E (FM), 16K0G2B (DSC)
Power supply requirement		13.8 V DC (GM600)
PS-310 #01 input voltage		
PS-310 #02 inp	ut voltage	12 V DC (10.8–15.6 V)
Current drain (with PS-310 #01)		(approximately)
Tx 25\	N output	3.3 A
Rx Max	k. audio	2.0 A
Operating temperature range		-15°C to +55°C
Antenna impedance		50 Ω (SO-239)
Weight (approx.)	GM600	1600 g
	PS-310	930 g
IEC 61162-1 in/out	format	
	Input	RMC, GGA, GNS, GLL, VTG
	Output	DSC, DSE
TRANSMITTER		
Output power		25 W, 1 W
Max. frequency deviation		±5.0 kHz
Frequency error		Less than ±0.5 kHz
Spurious emissions		Less than 0.25 µW

30.15 MHz, 450 kHz (1st/2nd) 46.35 MHz, 450 kHz (1st/2nd)
Less than -7 dBµ emf. typ. Less than -7 dBµ emf. typ.
Less than -2 dBµ emf
More than 75 dB 73 dBµ emf
More than 75 dB 73 dBµ emf
More than 75 dB 73 dBµ emf
More than 40 dB
(at 10% distortion) 10 W (4 Ω load) 2 W

Measurements made in accordance with EN 301 925. These specifications are described when the GM600 is used with the PS-310. All stated specifications are subject to change without notice or obligation.

Applicable IP Rating

Ingress Protection Standard		
Water	IPX7 (1 m depth water for 30 minutes)	

Supplied accessories:

- Hand microphone, HM-214V
- Mounting bracket kit
- DC power cable

OPTIONS

Adjacent channel power

Audio harmonic distortion

Residual modulation



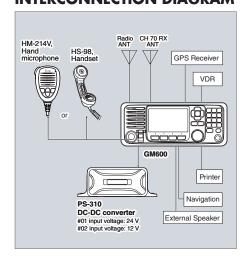




INTERCONNECTION DIAGRAM

PS-310

GM600



GMDSS MF/HF/VHF RADIO STATION

Please Note: PS-310 MUST BE USED with GM600 for MED certification compliance.

More than 70 dB

More than 40 dB

(at 1 kHz, 60% deviation)

Less than 10%



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