



PRE-RELEASE INFORMATION

GMDSS MF/HF TRANSCEIVER with CLASS A DSC

# GM800



Day mode display (DSC scan screen)

# MF/HF GMDSS

Global Maritime Distress and Safety System

**Reliable Performance  
for MF/HF Long Distance Communication**

**Satisfies the SOLAS Carriage Requirements  
for a MF/HF Class A DSC Radio**

**Will Meet MED\* "Wheel Mark" Requirements**

\* Type approval pending as of November, 2015.

**Large and High Contrast 4.3 inch Color  
TFT LCD with Day and Night Mode**

**New Intuitive User Interface  
for Straightforward Operation**

**IPX7 Waterproof Construction  
(Controller only)**



MED

(Type approval pending  
as of November, 2015.)

**IPX7**

(Controller only)



Night mode display

**Please Note:** The complete GMDSS installation for MF/HF DSC (Class A) and telephony additionally requires the optional antenna tuner, AT-141.

**Satisfies SOLAS Carriage Requirements**

The GM800 meets the GMDSS requirements as required for SOLAS regulated commercial vessels engaging in international voyage. The GM800 will meet the MED\*, "wheel mark" requirements for European merchant ships.

\* Type approval pending as of November, 2015.

**ITU Class A DSC (ITU-R M.493-13)**

A dedicated DSC watch receiver continuously scans the six distress channels in rotation. The DSC Multi-task function shows up to seven DSC procedures. The GM800 is also capable of sending a distress relay call.

**Large 4.3 inch Color TFT LCD**

The color TFT LCD offers user-friendly icons and display design. The improved font allows quick recognition of screen information. You can select the day and night modes according to the lighting conditions.

**New Intuitive User Interface**

Menu items are shown with user-friendly icons and that can be navigated via the main dial knob or the up and down keys. Often-used functions are lined up at the bottom of the display and can be toggled with the left and right keys.

**And More**

- IPX7 waterproof construction for controller (1m depth of water for 30 minutes)
- 125W\* (PEP) output power
  - \* 85W (PEP) 1.6-3.999MHz
- Built-in 24V DC-DC converter
- 57mm diameter front speaker
- IEC 61162-1 for GPS connection
- Unified design with GM600 (VHF)

**Supplied accessories:**

- Handset, HS-98
- Mounting brackets
- DC power cable

**SPECIFICATIONS**

GENERAL	
Frequency range	Tx 1.6-27.5000MHz (ITU marine channels) Rx 0.5-29.9999MHz (continuously) DSC 2.1875, 4.2075, 6.3120, 8.4145, 12.5770, 16.8045MHz
Type of emission	Tx/Rx J3E (USB/LSB)*, J2B (AFSK), F1B (FSK), A1A* (CW), H3E* (AM) DSC F1B * Receive only
Number of channels	1237 channels (maximum) (160 user-programmable; 249 ITU SSB duplex; 72 ITU SSB simplex; 21 C1; 31 C2; 704 ITU FSK duplex)
Power supply requirement	21.6-31.2V DC (24V DC) (floating ground)
Current drain (approx. at 24V)	Tx Maximum power Less than 20A (at 1.1kHz and 1.7kHz two tones) Rx Maximum audio Less than 3A
Operating temperature range	-15°C to +55°C
Antenna impedance	50Ω (SO-239x2)
Frequency stability	Tx/Rx ±10Hz (0.5-29.9999MHz) DSC ±10Hz
NMEA Interface	GGA, GNS, GLL, RMC
TRANSMITTER	
Rated output power (at AT-141 output power)	85W PEP (1.6-3.999MHz) 125W PEP (4.0-27.500MHz)
Spurious emissions	43dB below peak output power (Maximum power)
Carrier suppression	40dB below peak output power (Maximum power)
Unwanted sideband suppression	55dB below peak output power (Max. power) (With 1000Hz AF input)

RECEIVER				
Sensitivity		0.5-1.599MHz	1.6-3.999MHz	4.0-29.999MHz
J3E, A1A (20dB SINAD)		30dBμV emf.	16dBμV emf.	11dBμV emf.
H3E (20dB SINAD)		44dBμV emf.	30dBμV emf.	-
		1.6-2.099MHz	2.1-27.500MHz	
J2B, F1B (1% error rate)		3dBμV emf.	0dBμV emf.	-
DSC (J2B) (1% error rate)		0dBμV emf. (2.1875, 4.2075, 6.3120, 8.4145, 12.5770, 16.8045MHz)		
Squelch sensitivity (at signal strength meter)	J3E H3E	(Threshold/Tight) Less than +20dBμV/Less than +90dBμV (at 12.230MHz) Less than +30dBμV/Less than +110dBμV (at 1.000MHz)		
Spurious response rejection	J3E J2B	More than 60dB (0.5-29.999MHz) More than 90dBμV emf.		
Audio output power	Internal SP External SP	2W with 8Ω load (at 10% distortion) 4W with 4Ω load (at 10% distortion)		
Clarity variable range		±150Hz		

All stated specifications are subject to change without notice or obligation.

**Applicable IP Rating**

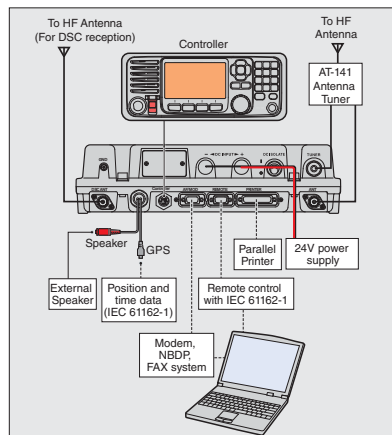
Ingress Protection Standard	
Water	IPX7* (1m depth of water for 30 minutes) * Controller only

**OPTIONS**

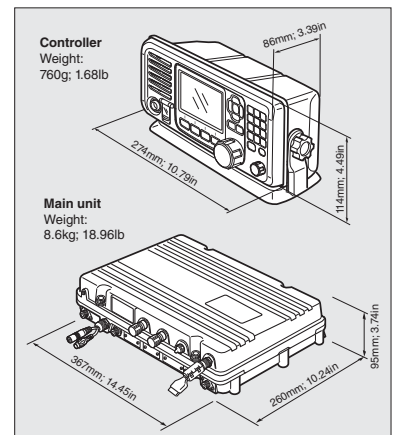
Some options may not be available in some countries. Please ask your dealer for details.

<p><b>AT-141</b> AUTOMATIC ANTENNA TUNER</p>  <p>IP56 rating for dust and powerful water jet protection.</p>	<p><b>OPC-1465</b> SHIELDED CONTROL CABLE</p>  <p>10m; 32.8ft cable</p>
<p><b>MB-108</b> MOUNTING BRACKET</p>  <p>Photo shows installation example.</p>	<p><b>HM-214H</b> SPEAKER-MICROPHONE</p> 
<p><b>HS-98</b> HANDSET</p> 	<p><b>SP-24E</b> EXTERNAL SPEAKER</p>  <p>Input impedance: 4Ω. Maximum input power: 7W.</p>

**INTERCONNECTION DIAGRAM**



**DIMENSIONS**



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