



**RCA**  
Communications Systems

# VHF Marine Mobile Radios



## MRM400

### POWERFUL & SUBMERSIBLE

The RCA MRM400 Marine Mounted Radio is a commercial grade, 25 Watt VHF marine radio designed with fully submersible IPX7 body that can be submersed in depth of 1 meter for up to 30min. The unit comes with 3 mounting options – Dash Mount, Flush Mount or Embedded Mount.

# MRM400 FEATURES

**Fully Submersible** – Fully submersible construction equivalent to IPX7 for 1m depth for up to 30 minutes.

**Built-in Class D DSC** – The DSC watch function enables you to monitor Ch.70 (DSC channel), even while you are receiving on another channel. DSC functions include: distress, individual, group, all ships, urgency, safety, position request/report, polling request and DSC test calls.

**Vibrates to Removes Water from the Speaker** – The RCA MRM400 comes standard with a new technology that helps clear water from the speaker. This vibrating function emits a vibrating beep that helps remove water, which can muffle the sound coming from the speaker, from the speaker housing.

**Small and Light** – The MRM400 has a very compact and lightweight design yet delivering full 25 watts of power.

**GPS Receiver Capable** – This mounted VHF marine radio comes with Common NMEA Interface build in, providing a capability to connect an optional GPS receiver using the NMEA 0183 connectivity. The optional GPS receiver will enable your radio to show your current position and time and can be used for DSC calls.

**Easy to see large LCD** – The large, easy to see LCD (32 x 26 mm) offers large and clear 2-digit channel number indication.

**Dual / Tri-Watch Function** – Allows you to monitor Channel 16 and / or a call channel while you are receiving on another channel.

**Volume loud and mute functions** – The volume loud/mute functions temporarily change the volume to the maximum/minimum level with two touches of a button. Depending on the background noise level, you can easily change the volume level to capture the received message.

**Industry Leading Warranty** – Backed by a Three (3) Year Warranty.



# SPECIFICATIONS

General	
Frequency Range	TX- 156.025-157.425 MHz/RX- 156.050-163.275 MHz
Mode	FM (16K0G3E) DSC (16K0G2B)
Channels	INT, USA, CAN, WX Channels
FCC Emissions	16K0G3E (FM) / 16K0G2B (DSC)
Frequency Stability	+/- 10ppm
Conformance	FCC, IC
Environmental Protection	IPX7 Certified
Power Supply Requirement	13.8V DC nominal (11.7-15.9V DC)
Antenna Impedance	50Ω
Mil Specs	MIL-STD-810 C, 810 D, 810 E, 810 F, 810 G
Operating Temperature	(-)4°F (-20°C) ~ (+)140°F (+60°C)
Dimensions	6" x 5.9" x 2.6" / 153 x 152 x 67mm
Weight (main unit)	1.6 lbs / 26.2oz (with microphone)
Transmitter	
Output Power	25W / 1W
Max. Frequency Deviation	±5.0 kHz
Spurious Emissions	≤-70dB (H) / ≤-56dB (L)
Adjacent Channel Power	≥70dB
Audio Harmonic Distortion	≤10%
Current Drain	≤5.5A (H) / ≤1.5A (L)
Input Resistance	2kΩ
Receiver	
Sensitivity	≤0.2uV
Squelch Sensitivity	≤0.2uV
Adjacent Channel Selectivity	≥70dB
Spurious Response Rejection Ratio	≥70dB
Intermodulation Rejection Ratio	≥70dB
Max. Current	≤1.5A
Audio Output Power	≥4.5W (10%)
GPS Signal ver.	NMEA0183-2.0
Output Impedance	4Ω

- ① **Channel / Weather Channel Key**
- ② **Channel 16 / Call Channel Key [16]**
- ③ **DSC / Position Key**
- ④ **Function Display**
- ⑤ **[▲][▼] / [UIIC]**
- ⑥ **Scan / Tag Key [SCAN]**
- ⑦ **Speaker**
- ⑧ **Distress Key [DISTRESS]**
- ⑨ **Power / Volume Control [VOL]**
- ⑩ **Squelch Control [SQL]**
- ⑪ **Transmit Power Key [HILO]**
- ⑫ **Channel UP / DOWN Keys [▲][▼]**
- ⑬ **Push-To-Talk Button [PTT]**