

**FURUNO**

# FM-4000

## MARINE VHF RADIOTELEPHONE

With Class-D DSC Modem and CH70 watch receiver

- ▶ 25 W or 1 W RF Output Power
- ▶ Built-in DSC meets Class D ITU-R M493-11/EN 301 025 requirement
- ▶ 30 W PA, FOG, Bells and Whistles with Listen Back
- ▶ Audio tone control
- ▶ Waterproof speaker microphone provides clear reception and transmission
- ▶ Easy channel selection with large rotary control
- ▶ Quick access to channel 16/9 Key
- ▶ Features a large alpha numeric keypad
- ▶ Optional voice scrambler provides private communications with other radios equipped with scramblers



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# SPECIFICATIONS OF FM-4000

## General

- |                        |                             |
|------------------------|-----------------------------|
| 1. Frequency           |                             |
| Transmit               | 156.025 to 157.425 MHz      |
| Receive                | 156.050 to 163.275 MHz      |
| 2. Mode                | FM (16K0G3E), DSC (16K0G2B) |
| 3. Channel Spacing     | 25 kHz                      |
| 4. Frequency Stability | ±5 ppm                      |

## Transmitter

- |                             |                           |
|-----------------------------|---------------------------|
| 1. Output Power             | 25 W (Hi) or 1 W (Lo)     |
| 2. Frequency Stability      | ±3 ppm                    |
| 3. Max. Frequency Deviation | ±5 kHz                    |
| 4. Spurious Emission        | 80 dB (25 W), 66 dB (1 W) |

## Receiver

- |  |  |
|--|--|
| 1. Sensitivity (12 dB SINAD)                     | 0.30 μV  |
| 2. Squelch Sensitivity                           | 0.13 μV  |
| 3. Intermodulation Rejection Ratio (12 dB SINAD) | -80 dB   |
| 4. Spurious Response Rejection Ratio             | -80 dB   |
| 5. Adjacent Channel Selectivity                  | 80 dB  |
| 6. Audio Output Power                            | 4.5 W  |
| 7. Audio Response                                | within +1/-3 of a 6 dB/octave de-emphasis characteristic at 300 to 3000 Hz |

DSC Class D EN 301 025

## Interface (NMEA0183 ver. 2.0/3.01)

- |           |                                     |
|-----------|-------------------------------------|
| 1. Input  | GLL, GGA, RMC and GNS               |
| 2. Output | DSC*, DSE* * NMEA0183 ver.3.01 only |

## ENVIRONMENT

- |               |                    |
|---------------|--------------------|
| Temperature   | -20 °C to +60 °C   |
| Waterproofing | IPX7 (Front Panel) |

## POWER SUPPLY

13.8 VDC ±20%, 5.0 A max

## EQUIPMENT LIST

### Standard

1. Transceiver Unit
2. Microphone
3. Installation Materials and Spare Parts

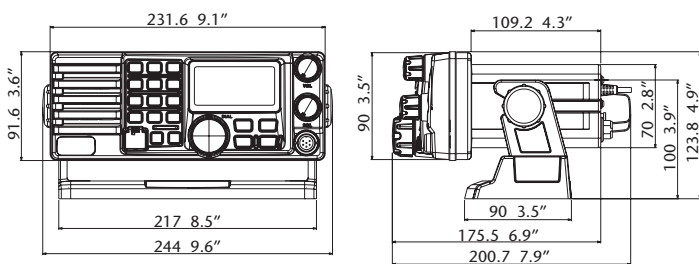
### Option

- |                             |                |
|-----------------------------|----------------|
| 1. Voice Scrambler          | CVS2500        |
| 2. Remote-Access Microphone | CMP30B (Black) |
| 3. Remote-Access Microphone | CMP30W (White) |
| 4. Flush-Mount Bracket      | MMB-84         |
| 5. Extension Cable          | CT-100         |
| 6. Bluetooth Headset        | BH-2A          |
| 7. Bluetooth Adaptor Unit   | BU-1           |
| 8. Charge Holder            | CAB-2          |

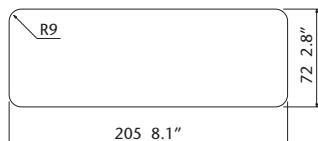
Optional Accessories	Voice Scrambler CVS2500	Remote-Access Microphone (Black) CMP30B	Remote-Access Microphone (White) CMP30W
Flush-Mount Bracket MMB-84	Bluetooth Headset BH-2A	Bluetooth Adaptor Unit BU-1	Charger Holder for BH-2 CAB-2

## Transceiver Unit FM-4000

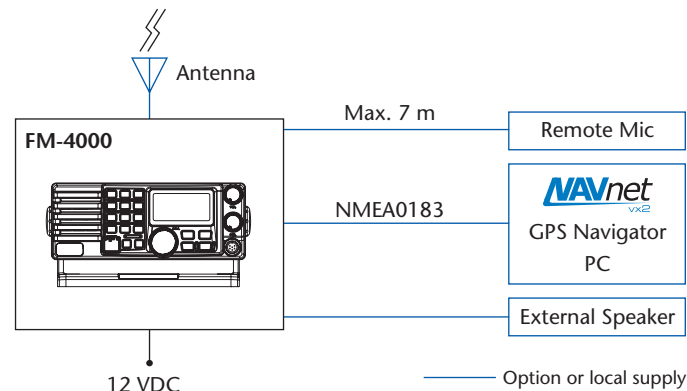
2.0 kg 4.4 lb



Cutout for Flush Mount



## INTERCONNECTION DIAGRAM



NOTE: Antenna unit is not included in the standard equipment. Please arrange it locally.

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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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Nishinomiya, Hyogo, Japan  
www.furuno.co.jp

**FURUNO U.S.A., INC.**  
Camas, Washington, U.S.A.  
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www.furuno.com.ru

**FURUNO HELLAS LTD.**  
Piraeus, Greece



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