

Product Name	VHF Radiotelephone	Sensitivity	less than 6 dB V at SINAD 20 dB
GENERAL CHARACTERISTICS		Adjacent Channel Selectivity	70 dB
DSC Section			
Rules and Regulations		Distress Call and Message	
VHF parts	EN 301 925 V1.2.1(2006.12)	Distress call attempt is transmitted as five consecutive calls.	
VHF ATIS	EN 300 698-1 V1.3.1(2003.12)	It is repeated after a random delay of between 3.5 and 4.5 min	
DSC parts	EN 300 338 V1.2.1(1999.04)	from the beginning of initial call until receiving the distress	
Class of Emission	G3E (telephone), G2B (DSC)	acknowledge call.	
Communication System		Message Log	
FM-8800S	Simplex/Semi-duplex	Receive:	50 distress messages + 50 non-
FM-8800D	Simplex/Full-duplex	Transmit:	distress messages
Channels		50 messages	
All VHF channels according to ITU-R Radio Regulations		Storage	100 files
Appendix S18, All channels in FCC Part 80, Max 20 Private		Interface	Nav data: IEC 61162-1
channels where permitted by Administrations (preset by the		Printer: Centronics	
service agent), 10 weather channels (USA and Canada, receive		Audible and visual on receipt of a DSC	
only).		call (One dedicated output port also	
Display		available)	
22 characters x 10 lines, character 7 x 11 dots, backlit LCD		Alarm	
TRANSMITTER		Receiver Characteristics	
Frequency Range		DSC frequency:	CH70
FM-8800S	Simplex/Semi-duplex: 155.000 -	Calling sensitivity:	Symbol error rate 10-2, input 0 dBμV
	161.475 MHz	Watch keeping:	Continuous watch on CH70
FM-8800D	Simplex/Full-duplex: 155.000 -	IF:	38.3625 MHz and 37.5 kHz
	158.000 MHz	POWER SUPPLY	
RF Output Power		FM-8800S: 24 VDC, 0.6 A (Standby), 1.6 A (RX), 4.7 A max. (TX)	
25 W, reducible to 1 W		FM-8800D: 24 VDC, 0.6 A (Standby), 1.6 A (RX), 7.2 A max. (TX)	
US version: CH13, 17, 67, 77 at 1 W, manual override for FULL		ENVIRONMENT	
Frequency Stability	less than ±1.5 kHz	Temperature (IEC 60529): -15°C to +55°C	
Time-out Timer (For FCC)		Waterproofing (IEC 60945): IPX4(Transceiver Unit/Hand Set)	
Deactivates the transmitter after an uninterrupted transmission		EQUIPMENT LIST	
of more than 5 minutes		Standard	
ATIS (Automatic Transmitter Identification System)		1. Transceiver Unit FM-8800S/8800D	1 unit
According to EN 300 698-1, an ATIS signal is transmitted every		2. Handset HS-2003 or Microphone DM-2003	1 unit
5 min or at the end of transmission, by modulating the carrier at		(Specify when ordering)	
1,300 and 2,100 Hz		3. Handset cradle FP05-05510	1 unit
RECEIVER		4. Installation materials and spare parts	1 set
Frequency Range		Option	
FM-8800S	Simplex: 155.000-159.600 MHz	1. Whip Antennas for VHF and DSC with Coaxial Antenna	
	Semi-duplex:	Cable	
	161.475-164.200 MHz	2. Extension Handset for wing (Dynamic/Carbon) with Wing	
FM-8800D	Simplex: 155.000 - 158.000 MHz	Receptacle OP05-57/OP05-58	
	Full-duplex:	3. Remote Station RB-8800/8810	
	160.625 - 162.000 MHz	4. Junction Box IF-8810	
Receiving System	Double-conversion	5. External Speaker SEM-21Q	
	superheterodyne	6. Printer PP-510/PP-8800	
AF Output Power	IF: 51.2375 MHz and 37.5 kHz	7. Interface Box IF-8820 for IC-350	
3 W (4 ohm loudspeaker)		8. AC/DC Power Supply Unit PR-240-C	
2 mW (150 ohm handset)		9. Flush Mount Kit OP05-1021	
Audio Response	De-emphasis of 6 dB/	10. Console Kit RC-8800	
	oct +1/-3 dB		

VHF
Marine VHF Radiotelephone

MARINE VHF RADIOTELEPHONE
FM-8800S/D





Full GMDSS-compliant, Simplex/Semi-duplex/Full-duplex, 25-Watt VHF Radiotelephone with a built-in Class-A DSC and CH70 Watch Receiver

- ▶ Fully meets ITU, IEC, ETSI, IMO for GMDSS and other national standards
- ▶ Compact all-in-one unit design includes a 25-Watt radiotelephone, Class A DSC modem and CH70 watch receiver
- ▶ Superb voice quality by employing the lower-noise-designed speaker
- ▶ Dual/multiple watch on selected channels while monitoring CH16
- ▶ Quick access to CH16 key
- ▶ Automatic entry of own ship position and time from a GPS navigator
- ▶ Easy channel readout with large characters
- ▶ ATIS mode available for European inland waterways
- ▶ Connects to an office or home via an existing PSTN (Public Switched Telephone Network)
- ▶ Simple interface with a printer and VDR (No need for a dedicated Junction Box)

The FURUNO FM-8800S/8800D are high quality, all-in-one marine VHF radiotelephones designed to comply with the GMDSS carriage requirements for safety and general communications. All the necessary functions such as a 25 W VHF radiotelephone, a Class A DSC modem and a CH 70 Watch Receiver are incorporated into the compact transceiver unit.

The FM-8800S offers simplex/semi-duplex, the FM-8800D offers simplex/full-duplex voice communications with superb voice quality. For easy readout of a selected channel, the silver-bright LCD on the front panel indicating the channel numbers with large, easy-to-read characters. The dedicated rotary control, numeric keys make selecting channels easy. Other standard features are instant access to CH 16, telephone call via a PSTN, Dual Watch and Multiple Watch functions, which allow watch on CH 16 and other selected channels.

Full Class A DSC functions are provided for distress alert transmission and reception, as well as the general DSC communications including Individual Telephone, All Ships, Group and Area Call. The FM-8800S/8800D maintain a continual watch on CH 70 even while you are using another VHF channel. Upon receiving an incoming DSC message, the FM-8800S/8800D give audible and visual alarms.

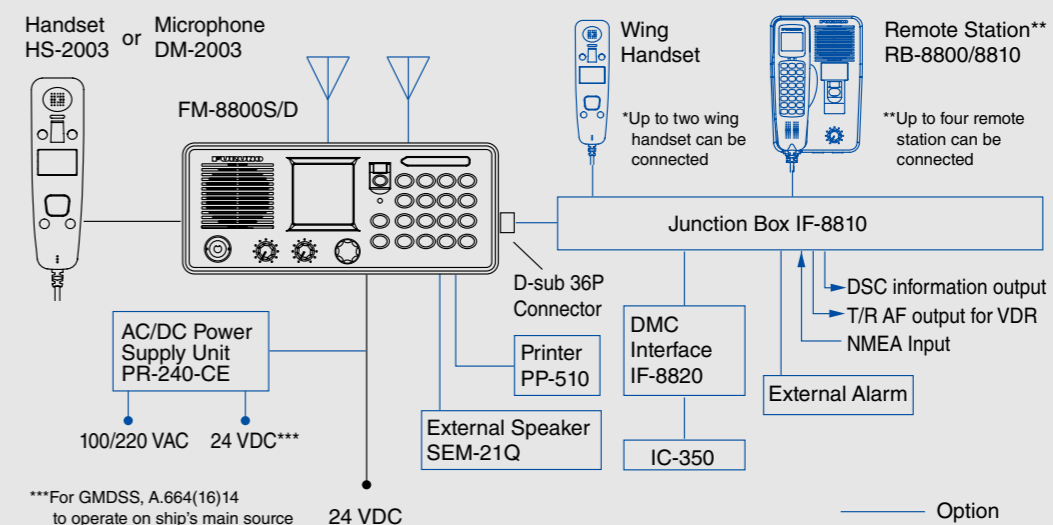
ATIS (Automatic Transmitter Identification System) is standard for use in European inland waterways. It automatically transmits the ID number when a communication is over or every 5 min while in communication. The ATIS mode and DSC mode are selectable through the menu.

Both units have two types of handsets: a compact hand MIC and a stylish handset. Up to four handsets can be additionally connected via an optional junction box. Each handset also functions as an intercom for onboard communication.

The compact transceiver unit allows a flexible and space-saving installation on a navigation console or the conning position. Flush mount installation is also available.

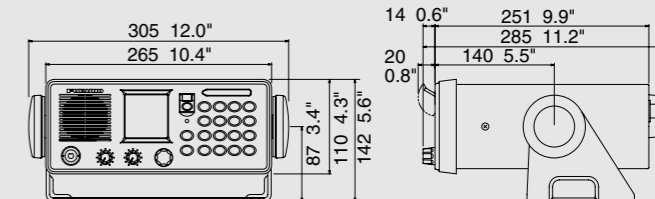


INTERCONNECTION DIAGRAM

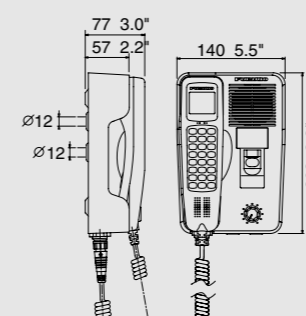


Transceiver Unit

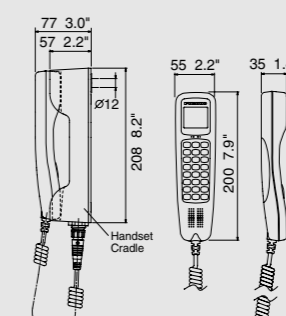
FM-8800S: 5.5 kg, 12.1 lb
FM-8800D: 6.4 kg, 12.6 lb



Remote Station RB-8800
1.2 kg, 2.7 lb



Remote Station RB-8810
0.7 kg, 1.5 lb



Handset HS-2003
0.2 kg, 0.4 lb

