FURUNO



Model: FM-8900S





Full GMDSS-compliant VHF radio with Class-A DSC facility and CH7



- ▶ Semi-duplex 25-Watt VHF radiotelephone with a built-in Class-A DSC and CH70 watch Receiver
- ▶ Fully meets GMDSS carriage requirements for SOLAS ships
- ► Meets the new ITU recommendation on digital selective calling system for use in the Maritime Mobile Service, ITU-R M.493-14
- ► Easy to read, high-contrast 4.3" bright color LCD
- ► Enhanced noise reduction and speaker for superb voice quality
- ▶ Quick access to CH16 key Press the CH16 key on the keypad to switch to radiotelephone display and select CH16 instantly



 Easy channel selection with rotary control or direct keypad input

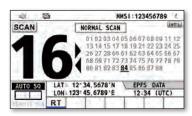


- ▶ Automatic entry of own ship position and time through the interfaced GPS receiver
- ► ATIS signal transmission available for inland waterways
- ► Connect to an office or home via an existing PSTN (Public Switched Telephone Network)

telephone O watch receiver

Scans all channels in the selected region and CH16

The FM-8900S scans all channels in the selected region as well as watches CH16 in alternate shift.



SCAN Display

Transmitting and receiving general/distress DSC messages

By long-pressing (3 seconds) the "DISTRESS" button, DSC distress alert can be transmitted. Also, quick entry to DSC message composition screen is available by use of "DISTRESS MSG" and "OTHER DSC MSG" buttons.

For general DSC messages, press "OTHER DSC MSG" to enter the composition screen.

For DSC messages for distress alert, press "DISTRESS MSG" to enter the composition screen.

For DSC messages for DROBOSE (DSC Relay On Behalf Of Someone else), press both "DISTRESS MSG" and "OTHER DSC MSG" to enter the composition screen.

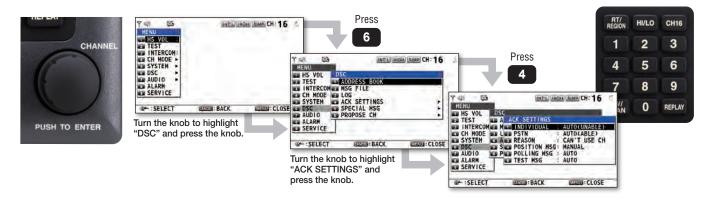
In the DSC Display, the operators can view the message log of the sent/received DSC messages.



DSC Display

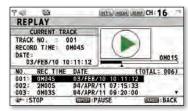
Quick access to dedicated functions in the menu operation using numeric keypad

In the menu, all tasks are assigned numbers, and the operator can access each of the menu items either by turning and pressing PUSH TO ENTER knob or simply pressing the corresponding numbers on the numeric keypad.



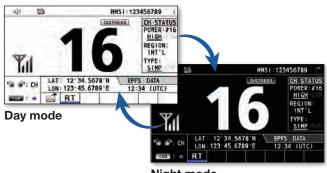
Replay function

The FM-8900S records the latest 120 seconds of incoming communication on the currently set channel. By simply pressing the "REPLAY" button on the numeric keypad, the last-received message will be played back on the spot.



Replay Display

Day mode and Night mode can be selected according to the lighting condition of the wheelhouse



Night mode

SPECIFICATIONS

PRODUCT NAME VHF RADIOTELEPHONE

CENERAL	CHARACTERISTI	CS

Rules and Regulations	
VHF Radiotelephone	EN 301 925 V1.4.1 (2013-05)
VHF ATIS	EN 300 698-1 V1.4.1 (2009-12)
DSC	ITU-R M.493-14 (09/2015)
	ITU-R M.541-10 (10/2015)
	ITU-R M.689-3 (03/2012)
	EN 300 338-1 V1.4.1 (2017-02)
	EN 300 338-2 V1.4.1 (2017-02)
Class of emission	G3E/F3E (Radiotelephone), G2B/F2B (DSC)
Communication system	Simplex/Semi-duplex
	INTL: 59 (ITU-R RR AP18(WRC-15))
	USA: 50 (FCC 47 CFR Ch. 1 § 80.371, § 80.373)
	Canada: 57 (Industry CANADA RBR-2)
Channels	Weather: 10 (USA and Canada, receive only)
	Inland waterway: 57 (ETSI EN 300 698-1 V1.4.1 2009-12)
	Private: 20 (permitted by administrations)
	MEMORY CH: 50
Display	4.3 inches WQVGA (480x272 dots), color dot matrix LCD

TRANSMITTER

Frequency range	155.000 - 161.600 MHz
	High: Max 25 W, Low: Not exceed 1 W
RF output power	US version: Manual override for 25 W available on
	CH13, CH67 and CH77 (usually not exceed 1W)
Frequency stability	Less than ±1.5 kHz
TX timeout	Deactivates the transmitter after an uninterrupted
(for US & Inland-waterway)	transmission of more than 5 minutes
ATIS	An ATIS signal is transmitted at the end of transmission,
	by modulating the carrier at 1,300 and 2,100 Hz

RECEIVER

Frequency range	Simplex: 155.000 - 161.600 MHz
requeries range	Semi-duplex: 159.600 - 164.200 MHz
	Double-conversion super-heterodyne
Receiving system	1st IF: 51.1375 MHz
	2nd IF: 62.5 kHz
Sensitivity	Less than 6 dB μ V at SINAD 20 dB
Adjacent channel selectivity	70 dB or more
AF output power	Built-in speaker: 3 W (4 ohms. THD 10 % or less)
Ar output power	Handset earphone receiver: 2 mW (150 ohms)
Audio response	De-emphasis of 6 dB/oct +1/-3 dB

DSC SECTION

Message log		Receive: 50 distress messages and	
		50 non-distress messages	
		Transmit: 50 messages	
Interface		Nav data: IEC61162-1 Ed.4	
		Printer: Centronics-compatible	
Alarm		Audible and visual on receipt of a DSC call	
DSC watch-keeping	Receiving frequency	156.525 MHz (CH70)	
receiver	Sensitivity	Symbol error rate: Less than 1 % (at 0 dB μ V)	

POWER SUPPLY

24 VDC, Standby: 1.3 A max., RX: 2.3 A max., TX: 4.7 A max.

ENVIRONMENT

Temperature	-15°C to +55°C
Relative humidity	93% (at 40°C)
Waterproofing	
FM-8900S (VHF Radiotelephone)	IP20 (IP22 with option)
HS-2003 (Handset)	IP24
IF-8900 (Junction box)	IP22 (Bulkhead), IP20 (Tabletop)
RB-8900 (Remote station)	IP22
RB-8900-W (Watertight remote station)	IP56
RC-8900 (VHF console)	IP20

EQUIPMENT LIST

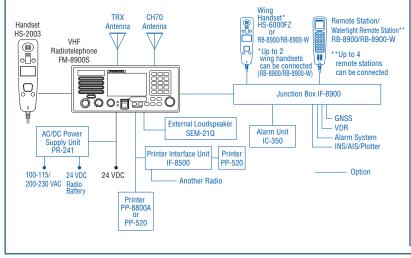
Standard

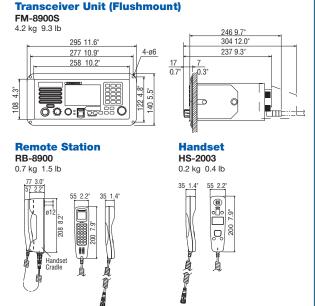
VHF Radiotelephone	FM-8900S	1unit
Handset	HS-2003	1unit
Handset Cradle	FP05-05510	1unit
Installation materials and spare parts		1set

Option

Junction Box	IF-8900
Remote Station	RB-8900
Watertight Remote Station	RB-8900-W
Handset and Cradle	
Flush Mount Kit	OP05-129
External Loudspeaker	SEM-21Q
Printer	PP-8800A/PP-520
Printer Interface Unit	IF-8500
AC/DC Power Supply Unit	PR-241
VHF Console	RC-8900

INTERCONNECTION DIAGRAM





Beware of similar products

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