

MARINE VHF RADIOTELEPHONE

Model **FM-4800**

Model **FM-4850**

The Ultimate 5-in-1 Tool of VHF Radios

GPS, AIS, Loud Hailer, NMEA2000 and DSC calling, all-in-one



FM-4800



Handset HS-4800



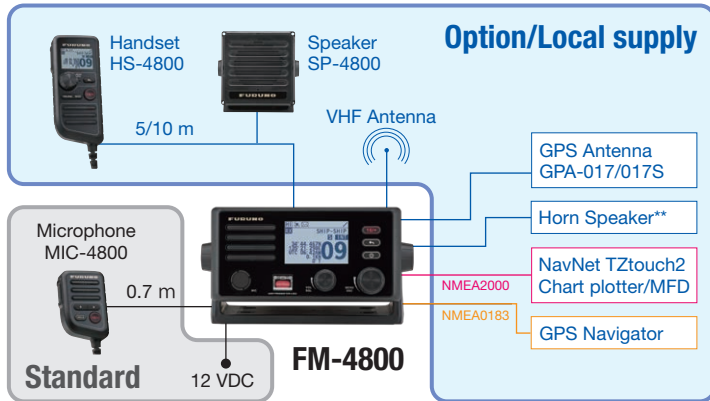
FM-4850 (Black Box type)

- ▶ Built-in 72 Channels GPS (FM-4800)
- ▶ Built-in AIS receiver
- ▶ 25 W/1 W output power
- ▶ Class D DSC
- ▶ Loud Hailer/Fog Horn
- ▶ NMEA2000 and NMEA0183 networking
- ▶ Dual Station with optional handset
- ▶ ATIS mode for inland waterway
- ▶ 10 weather channels
- ▶ Fully waterproof (IP67)
- ▶ Up to 3 Handsets HS-4800/Speakers SP-4800 connectable (FM-4850)

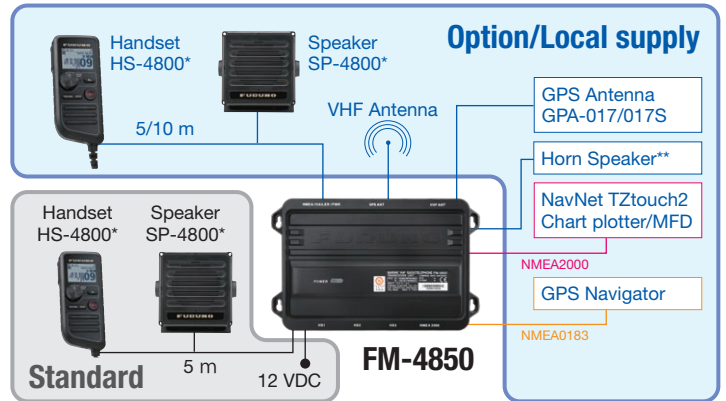


Everything needed for Hailing and Calling in one unit

FM-4800 Configuration



FM-4850 Configuration



*Up to 3 handset/speakers connectable
** Local Supply

SPECIFICATIONS

1. GENERAL

Channels	International, USA and Canada
Frequency stability	Within ± 1.5 kHz
Communication system	Simplex / Semi-duplex
Antenna impedance	50 ohms
Display	Monochrome, 192 x 128 dot (FM-4800, HS-4800)

2. TRANSMITTER

Frequency Range	156.025 MHz to 162.000 MHz
Output power	25 W max., 1 W at power reduction
Frequency deviation	± 5 kHz max.
Spurious emission	Standby: less than 2 nW Transmit: less than 0.25 μ W
Modulation	16K0G3E (F3E) Voice, 16K0G2B (F2B) DSC

3. RECEIVER

Frequency range	155.500 MHz to 162.0375 MHz
Sensitivity	+6 dB μ V (e.m.f.) or less (SINAD 20 dB)
Channel selectivity	70 dB or more
Spurious response	70 dB or more

4. DSC

Protocol	Class D DSC
Sensitivity	0 dB μ V (e.m.f.) or less (BER < 1%)
Channel selectivity	70 dB or more
Spurious response	70 dB or more

5. AIS RECEIVER

Receiver frequency (CH)	161.975 MHz (AIS1), 162.025 MHz (AIS2)
Sensitivity	-107 dBm or less (PER < 20%)
Channel selectivity	70 dB or more
Spurious response	70 dB or more

6. GPS RECEIVER

Receiving frequency	1575.42 MHz
Number of channel	72 channels
Accuracy	10 m
Position fixing time (cold start)	120 sec typical
Position update interval	1 sec

7. LOUD HAILER / FOG HORN

Output power	30 W max. (4 ohms)
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8. INTERFACE

Number of port	NMEA0183 2 ports (IN: 1, OUT: 1), NMEA2000 (3LEN) 1 port
NMEA0183 sentence	DTM, GGA, GLL, GNS, RMA, RMC
Input	DSC, DSE, GLL, RMC, VDM
Output	
NMEA2000 PGN	
Input	059392/904, 060160/416/928, 065240, 126208, 127258, 129026/029/044
Output	059392, 060928, 126208/464/993/996/998, 129025/026/029/038/039/040/041/540/793/794, 129795/797/798/801/802/808/809/810

9. POWER SUPPLY

12.0 VDC (-10%, +30%) 5.0 A Max

10. ENVIRONMENT

Ambient temperature	-15°C to +55°C
Relative humidity	93% or less at +40°C
Degree of protection	IP67 (FM-4800, FM-4850, HS-4800, SP-4800)

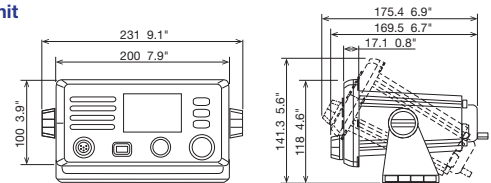
EQUIPMENT LIST

FM-4800	FM-4850
Standard	Standard
Transceiver Unit FM-4800	Transceiver Unit FM-4850
Microphone MIC-4800	Handset HS-4800
Installation materials	Speaker SP-4800
Option	Option
Handset HS-4800	Handset extension cable (5 m)
Speaker SP-4800	Installation materials
Handset extension cable (5/10 m)	Option
GPS Antenna GPA-017/017S	Handset HS-4800
	Speaker SP-4800
	Handset extension cable (5/10 m)
	GPS Antenna GPA-017/017S

Transceiver Unit

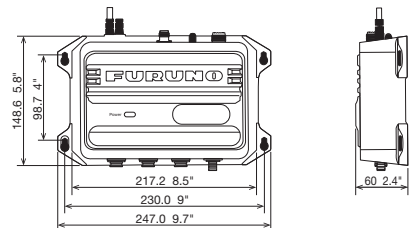
FM-4800

1.7 kg 3.8 lb



FM-4850

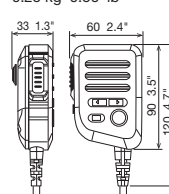
1.75 kg 3.85 lb



Microphone (FM-4800 only)

MIC-4800

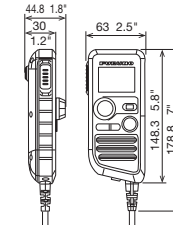
0.25 kg 0.56 lb



Handset

HS-4800

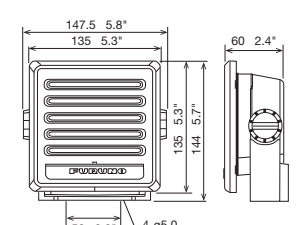
0.3 kg 0.66 lb



Speaker

SP-4800

0.76 kg 1.69 lb



Beware of similar products

All brand and product names are registered trademarks, trademarks or service marks of their respective holders.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

FURUNO

PACKING LIST FOR FM4850

For Internal Use Only	
Serial No. _____	
Checked By: _____	
Tech _____	
Date _____	
FM4850	
Yes	Remarks

Box 1 - FM4850 **Wt: 10 lbs. Dim: 11" x 11" x 12"**

<u>Part No.</u>	<u>Description</u>	<u>Quantity</u>
1	FM4850	1
2	Tapping Screw 4x25	4
3	Fuse 8A 250V	2
4	UHF Connector	1
5	Operator's Manual	1
6	Environmental Data Sheet	1



FURUNO

PACKING LIST FOR FM4850

For Internal Use Only	
Serial No. _____	
Checked By: _____	
Tech _____	
Date _____	
FM4850	
Yes	Remarks

Box 1 - FM4850 **Wt: 10 lbs. Dim: 11" x 11" x 12"**

<u>Part No.</u>	<u>Description</u>	<u>Quantity</u>
7	SP4800 Speaker	1
8	Speaker Hanger	1
9	Tapping Screw 4x25	4
10	Hanger Knob	2
11	Flush Mount Cushion	1
12	Flush Mount Template	1



FURUNO

PACKING LIST FOR FM4850

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Serial No. _____	
Checked By: _____	
Tech _____	
Date _____	
FM4850	
Yes	Remarks

Box 1 - FM4850		Wt: 10 lbs. Dim: 11" x 11" x 12"	
<u>Part No.</u>	<u>Description</u>	<u>Quantity</u>	
13	HS4800 Handset	1	
14	Handset Hanger	1	
15	Tapping Screw 4x25	3	
16	Cable Holder	1	
17	Seal	1	
18	Waterproof Cover	1	
19	Plastic Nut	1	
20	Tapping Screw 3x10	3	
21	Extension Cable EX-CBL-FM5M	1	

