

F1-DSC

FI DSC VHF Marine Radio



The mcmurdo logo, consisting of the word 'mcmurdo' in a bold, blue, sans-serif font, followed by a stylized red and blue swoosh graphic.

Class D DSC VHF Marine Transceiver

The F1 VHF radio with its integral Class D DSC is the very latest in quality, state-of-the-art safety equipment from McMurdo. The clear easy-to-read LCD and "mobile phone style" alphanumeric keyboard make this compact radio exceptionally easy-to-use, providing GMDSS (Global Maritime Distress Safety System) style standards to anyone.

Designed specifically for the pleasure and work-boat markets, F1 DSC features include:-

VHF Functions

- All international channels
- USA + weather channels
- 30 Private channel capability
- 9 User programmable channel scanning
- All channel scan
- Dual watch
- 4 Level LCD + keyboard back lighting
- Dedicated power on/off button
- Channel 16 quick access button
- Rotary knobs for both Volume and Squelch control
- Robust submergible fist mic
- Innovative front mounted mic clip
- Waterproof design
- Optional flush mount kit
- Connection for external loudspeaker
- Independent speaker control
- Water resistant connection covers

DSC Features

- All ships Distress call
- All ships Urgency call
- All ships Safety call
- Individual Routine calls
- Individual Safety call
- Individual Urgency call
- Group Routine calls
- 50 MMSI number Directory

Connected to a GPS via the NMEA0183 interface, the F1 DSC is the perfect sea area 1 communicator for inter-ship routine calling or urgency and distress calling at the cessation of dedicated headset watch on channel 16 in 2005.



Following in the foot steps of the award winning design of the Precision 406 GPS EPIRB, McMurdo brings together experience and extensive research that has culminated in the development of the innovative F1 DSC Class D VHF Marine Transceiver.

Digital Selective Calling or DSC allows the radio user to select an MMSI number and call a friend, coastguard or group, such as a flotilla, simply by sending a digital tone message on channel 70 to a specific MMSI number. The MMSI (Maritime Mobile Service Identity) number is as unique as your mobile phone number and allows calls to be made directly to the vessel concerned. DSC is quite simply a hailing system designed to initiate a standard voice communication that contains the vessel's identification number, the purpose of the call and the channel number you wish to talk on. Once acknowledged by the recipient, normal voice communication can take place as both radios automatically select the channel contained in the initial DSC message. Like your mobile phone, F1 DSC can store up to 50 MMSI numbers along with the vessel's name in a directory for future use.

F1 DSC

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The ABC to DSC... it's as simple as using a mobile phone without the call charges!

	Call Mode	Your mobile phone	F1 DSC VHF
A	Choose who to call	Select telephone number of person you wish to call	Select MMSI number of vessel you wish to call
B	Make initial contact	Press send button	Press send button
C	Respond to call	Press answer button	Press acknowledge button

Why shouldn't I use my mobile telephone to make calls for help?

Cellular phones appear to offer a low cost alternative to marine VHF however, if you were in distress they have several significant weaknesses:-

- The cellular networks may offer poor coverage at sea.
- You can only ring one number (e.g. Coastguard), so other vessels close by will be unaware of your situation, and therefore unable to offer assistance.
- If you are on the fringe of a cell, you can very easily lose contact.
- Lifeboats and helicopters are not equipped to obtain a bearing of cellular signals and cannot communicate with you via mobile telephone.

THE COASTGUARD STRONGLY ADVISE YOU TO CARRY A TYPE APPROVED MARINE VHF DSC TRANSCEIVER

FI DSC VHF Marine Radio

Specification

Supply voltage	13.2V DC Nominal
Supply range	10.8V DC – 15.6V DC
Transmit/receive channels	All International channel for 25 kHz operation UK, M and M2 USA channel mode, including WX1 – 10 receive only Scandinavia, leisure and fishing channels Up to 30 programmable private channels
Private channels	Simplex/Semi-duplex
Operation modes	±10 ppm
Frequency stability:	G3E/JN for telephony
Modulation	G2B for DSC signalling
Antenna connector	PL259
Temperature range	-15°C to +55°C
Transceiver size	H 85mm x W 194mm x D 180mm
Transceiver weight	2.1 kg

Transmitter

Power output	High = 25 Watt / Low = 1 Watt
Adj. ch. Power	Below 70dBc
Spurious radiation	Below 0.25 µW
Cabinet radiation	Below 0.25 µW
AF response	+6dB/octave
Distortion	Below 5%
Signal/noise ratio	Better than 40 dB

Receiver

Sensitivity for 12 dB SINAD	-119 dBm or 0.25µv p.d.
AF rated power	
Internal speaker	4W/ 8ohm
External speaker	4W/ 8ohm
Distortion THD	Below 5%
AF response	-6 dB/octave
Spurious emission	Below 2nW

Approvals

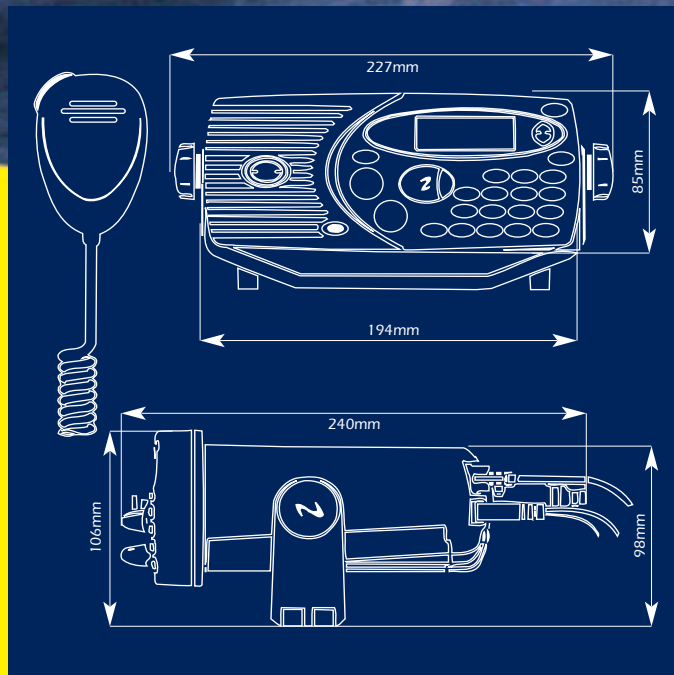
R&TTE Approved
FCC Approved
Other International Approvals

Accessories



Flush Mount Kit

Conforms to all relevant international requirements and resolutions as agreed by ETSI and ITU as well as other national requirements. These specifications include ETS 301 025 and ETS 300 828.



Ordering information

Model	Description	Part No.
F1 DSC	VHF Radio c/w fist mic	84-410 A
F1 DSC	Fist Mic Kit	84-414
F1 DSC	Flush Mount Kit	84-412
F1 DSC	Flush Mount Brackets	84-413
F1 DSC	Mic Clip	84-766

Other equipment in the McMurdo range includes EPIRBs, PLBs, SARTs, UAIS, VHF radios, DSC VHF radios, survivor location lights, ICS NAVTEX equipment and Pains Wessex pyrotechnics.

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