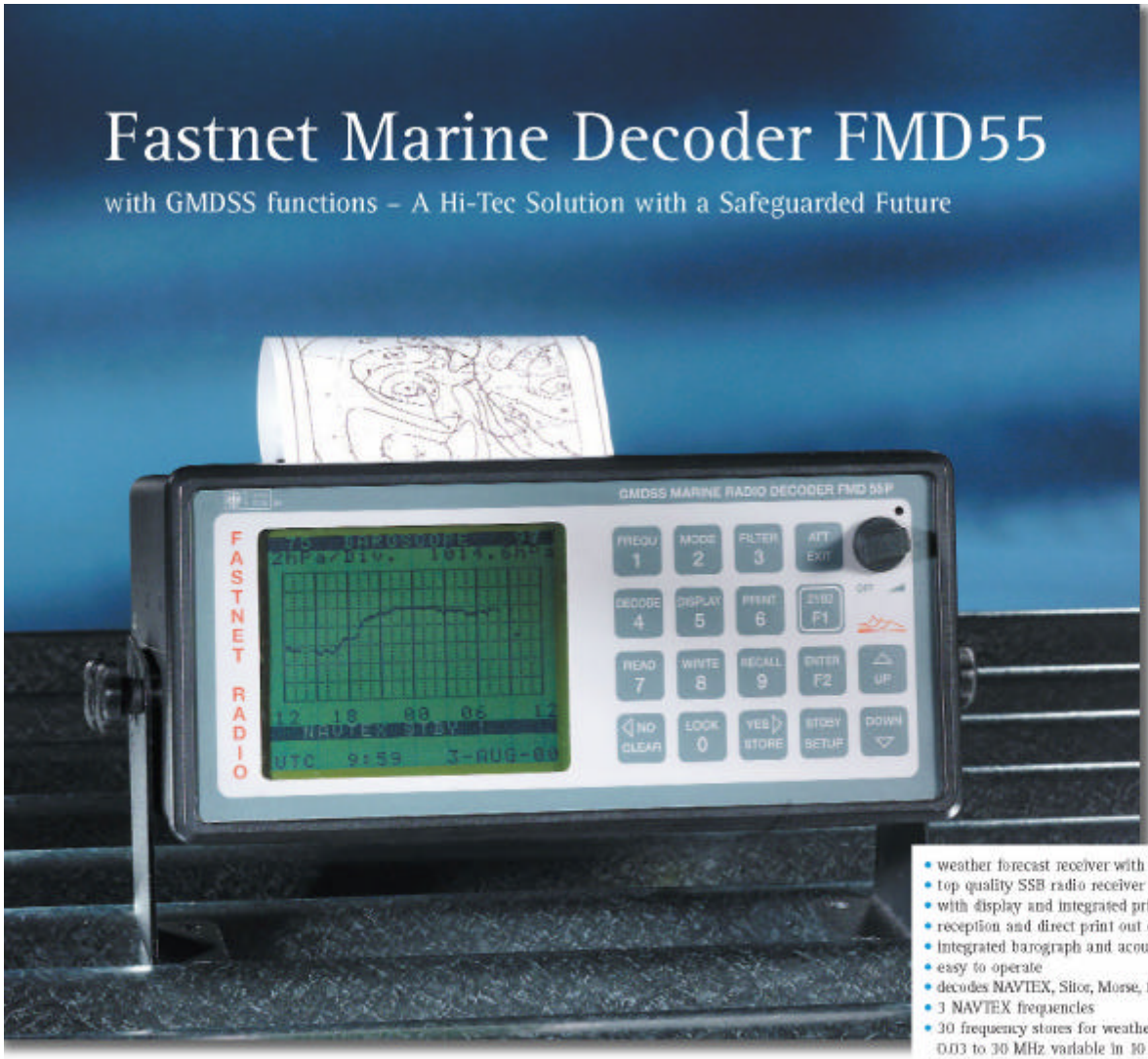
Fastnet Marine Decoder FMD55

with GMDSS functions – A Hi-Tec Solution with a Safeguarded Future

FASTNET RADIO AG

for your safety at sea



FMD55 – luxury class high-tech solution with a safeguarded future

- weather forecast receiver with GMDSS functions
- top quality SSB radio receiver and MSI J3E Broadcasts
- with display and integrated printer
- reception and direct print out of weather charts
- integrated barograph and acoustic storm warning signal
- easy to operate
- decodes NAVTEX, Sitor, Morse, facsimile and RTTY signals
- 3 NAVTEX frequencies
- 30 frequency stores for weather reports in the range 0.03 to 30 MHz variable in 10 Hz steps
- 27 timer functions to receive and store meteorological reports automatically
- print out at a touch of a button
- NMEA 0183 interface – automatic log bookkeeping when connected to a GPS
- RS232 interface for connecting pc/notebook
- up to 6 months memory store when switched off
- simple installation
- meteorological information free of charge
- BZT and CE approved

For the automatic reception of weather reports, forecasts and warning messages on board.

FMD 55P is certainly the world's most efficient automatic, compact weather report and warning receiver. It is the top end of the scale model in terrestrial radio transmission segment of the Fastnet Radio range of products for world-wide sailing.

It has a high quality receiver for the international NAVTEX frequencies 490 kHz , 518 kHz and 4209.5 kHz and, for the reception of weather reports, transmitted for the conventional shipping in sea areas A1, A2 and A3, on all frequencies between 30 kHz and 30 MHz. Up to 30 desired frequencies and their decoding modes can be stored. Additionally the extremely efficient receiver is adapted for listening to all world-wide radio transmissions and MSI J3E Broadcasts.

The FMD 55P has been designed as a „stand alone“ unit with an integrated barograph, acoustic storm-warning device and weather chart printer.

The FMD 55P receives and stores all NAVTEX messages from selected stations, which you can print out on the integrated printer, directly or when desired.

The software permits simple re-programming of weather forecast frequencies between 30 kHz and 30 MHz at any time.

The timer function has up to 27 memory stores for weather charts transmitted in facsimile, which can be received and printed out and for weather forecasts transmitted in Morse, RTTY, SITOR and MSI J3E Broadcast for conventional shipping, which can be automatically received and stored. The decoded reports can then be read in the display and, if desired, fully or partially printed out in plain language.

A large 16-line, back-lit display and a user-friendly splash-proof keypad guarantee an easy and comfortable operation. Once correctly programmed, up-to-date weather information is constantly available at the touch of a button.

This unit in the FMD range of products, specially developed by Fastnet Radio for the existing worldwide sea areas, distinguishes itself by its unique digital filter technique and automatic FSK system, which offer the highest standard of reception.

As in the case of all Fastnet Radio products, great care has been taken into developing equipment sparse in the use of the limited power reserves on board.

VIA INMARSAT™

FMD55P – Special Features

• Receiver
Frequency range: 30 kHz to 30 MHz, with digital input, using the modes AM, SSB, FSK, CW and MSI J3E for the reception of radio and weather forecast transmission stations. Up to 30 self -selected frequency parameters can be stored under allotted channels.

• NAVTEX Decoder
For all international frequencies (518 kHz in English, 490 kHz for local language and 4209.5 kHz in English for the tropics). The desired stations and messages can be read or printed out. Repeated messages as well as undesirable stations or types of messages can be suppressed.

• MSI (Maritime Safety Information) Decoder
Reception and printing out decoded MSI messages in plain language according to GMDSS.

• Weather Forecasts in Plain Language
Weather information and forecasts, prepared by meteorologists for the conventional shipping, are transmitted from more than 150 marine radio stations world-wide. The transmitted signals in Morse code, RTTY (Radio Tele Type) or SITOR can be received by the FMD55P, decoded, stored and printed out in plain language.

• Facsimile weather charts
Weather charts in facsimile transmission will be received, decoded and printed out on the high resolution graphic printer.

• Timer Function
Similar to a video recorder, it can be set to activate 27 different programme stores. With this feature, it is possible to receive, decode, store and print out forecasts fully automatically. The decoded information will be then stored to be recalled, either on display or wholly or partially printed out.

• Barograph
The build in highly precise air pressure meter measures the actual air pressure and displays it. The average evaluation of the past 24 hours is shown graphically on the display. Inputting a gradient limit, an automatically storm warning can be activated.

• Navigation Log and NMEA Printer
An external GPS can be connected easily via the NMEA 0183 interface. At user selected intervals, the data of the vessel's exact position, date, time and speed will be recorded and can be printed out at request. When in the NMEA printer mode the data will be printed out directly.

• Installation and Operation
The following items are standard supply with the FMD55P: universal mounting brackets, which allow fitting at various angles either on the wall, ceiling or desk-top, pre-assembled power supply cable, connection for antenna and a detailed operator manual.

Kreiger Ges.m.b.H
Feschnigstrasse 72
A-9020 Klagenfurt
Tel.: +43 463 43390 / +43 664 1817985
Fax: +43 463 43390 4
e-mail: kreiger@aon.at
http: www.kreiger.eu

Dealer:

11.10.2006

Technical Data

RECEIVER

Frequency Range:	30 kHz to 30 MHz variable
Modes:	AM, USB, FSK, CW und MSI J3E Broadcast
Adjustment:	digital in 1kHz and 10 Hz steps
IF filter:	2,2 kHz, 4 kHz, 7 kHz and 10 kHz
Audio filter:	500 Hz at 1500 Hz centred frequency
Antenna input:	50 Ohm asym. BNC socket
Loudspeaker:	intern 8 Ohm approx. 1 Watt max.

NAVTEX

Frequencies:	490, 518 and 4.209,5 kHz
Parameters:	stations, messages, repeat, alarm and print
Memory:	15.000 characters

DECODER

Converter:	Signalprocessor with automatic identification
Decoding:	Morse: 40 to 120 bpm, RTTY: 50,75 und 100 Baud Sitor: 100 Baud
Memory:	approx. 32.700 characters

NAVIGATIONS-LOG

Interface:	NMEA 0183 / $GPRMC
Parameters:	date, time, longitude, latitude, COG and SOG

DISPLAY / KEYPAD

LCD:	101 x 82 mm, back-lit
Data format:	16 rows of 20 characters
Contrast:	adjustable, temperature compensated
Keypad:	18 mechanical short way keys

PRINTER

System:	thermal printer
Resolution:	5 x 7 dots per row
Characters p. line:	max. 52
Paper:	thermal, 112 mm x 25 (28) mtrs
Life expectation:	500,000 lines (fully printed)

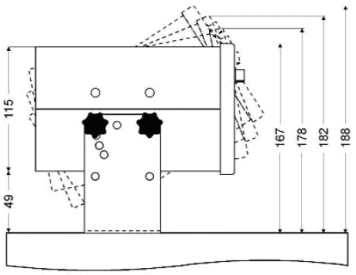
CONNECTIONS

Power supply:	11 to 16 V DC
Consumption:	approx. 480 mA in standby, Approx. 580 mA in operation
Audio signal:	record out approx. 400 mV at 5 kOhm
Loudspeaker:	external 1.6 W at 4 to 8 Ohm
Antenna:	50 Ohm asym. on BNC socket
GPS:	NMEA 0183 on 9 pol. SubD – socket
Interface:	RS232: 9600 Bd on 9 pol. SubD-socket

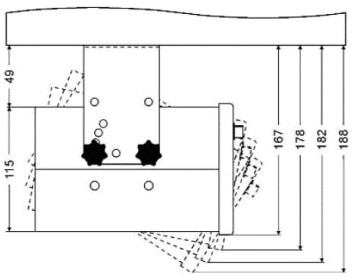
GENERAL

Dimensions:	253 x 115 x 180 mm (W x H x D)
Overall dimensions:	300 x 120 x 230 mm (W x H x D)
Weight:	approx. 2800 g
Ambience:	0 °C to 55 °C in operation -30 °C to +70 °C in storage
Humidity:	90% at 45 °C
Specifications:	EN60945 GMDSS standard if applicable.
Approvals:	CE and BZT (Fed. Telecomm.)

table assembly



ceiling assembly



internal assembly