Inmarsat-C MOBILE EARTH STATION

Model FELCOM 15

- Full coverage of Inmarsat-C services: EGC, Internet E-mail, distress message handling, polling, and data reporting
- General data exchange, telex, etc.
- GMDSS compliant with optional printer, AC/DC power supply unit
- Shipborne LAN connection by Ethernet 10Base-T
- 10.4" COLOR LCD Display Unit for improved legibility of incoming and outgoing messages
- GPS position reporting
- Remote distress alert unit
- Two component distress alert unit
- Optional software for Windows PC to run E-mail/Telex
- Optional internal GPS module

The FELCOM 15 is FURUNO’s new Inmarsat-C Mobile Earth Station. It provides a high quality two-way telex and data link between ships and other parties at sea or on land. All functions and services of the Inmarsat-C system are provided: EGC (Safety NET™/FleetNET™), distress message handling, two-way digital store-and-forward messaging including polling, data reporting, E-mail, etc.

Distress alert are initiated by the remote distress alert unit. The distress message including own ship’s position is easily edited. A PC can be used for editing the message via Ethernet when it is supplied with dedicated software.

The FELCOM 15 consists of an antenna and display unit with keyboard. The display unit embodies a 10.4" color LCD and processor unit. The distress alert button is incorporated in the display for emergency. Data files and utility program on floppy disks are easily loaded into the processor through the front loading disk drive in the display unit. The compact design of display unit and omni-directional antenna unit offer space-saving installation. An optional GPS module is available for position reporting without operator’s intervention. GMDSS compliance can be achieved by adding a printer and a AC/DC power supply unit.
SPECIFICATIONS OF FELCOM 15

Rule and Regulations

Class Identification
Felcom 15 is Class 2 Inmarsat-C SES

Inmarsat-C Services Supported
- EGC receiving (SafetyNET™, FleetNET™)
- Distress message handling
- Two-way, digital store-and-forward message handling: Telex, FAX (PSTN), Internet E-mail, X.25 (PSPD), X.400 (MHS), Closed Network (DNI), Special Access Code
- Polling, Data Reporting

Equipment Support
- EGC receiving (SafetyNET™, FleetNET™)
- Distress message handling
- Two-way, digital store-and-forward message handling: Telex, FAX (PSTN), Internet E-mail, X.25 (PSPD), X.400 (MHS), Closed Network (DNI), Special Access Code
- Polling, Data Reporting

Frequency
TX: 1626.5 - 1646.5 MHz
RX: 1530.0 - 1545.0 MHz

Channel Spacing
5 kHz

Modulation
BPSK 600/1200 symbols/s

Output Power
17 W at final amplifier

Display Unit IC-215
Display: 10.4" color LCD (207 x 160 mm)
Message: 72 characters/line, 25 lines/screen

Printer PP-510
Mandatory for EGC operation as required by IMO Res. A.664 (16).
Printing paper: Rolled, impact dot, 216 mm wide, 80 characters/line

Power Supply
12-24 VDC, 160 W (TX), 75 W (RX)

Temperature
Protected units: -15°C to +55°C
Exposed units: -35°C to +55°C
(Storage: -35°C to +70°C)

Equipment List
Standard
1. Antenna Unit with 30 m Cable
2. Terminal Unit with Keyboard
3. Junction Box
4. Distress Alert/Received Call Unit
5. Alarm Unit
6. Installation Materials and Spare Part

Option
1. GPS Board Kit OP16-24
2. Printer PP-510
3. Software for PC
4. Antenna Cable 8D-FB-CV (50 m), 12D-FB-CV (100 m)
5. AC/DC Power Supply Unit PR-240*

*Required for EGC, IMO Res. A.664 (16)/4 to operate on ship’s mains

INTERCONNECTION DIAGRAM

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE