

# FURUNO

## MES

Mobile Earth Station



Models:

**FELCOM18**

**FELCOM19**

# MES

INMARSAT Mobile Earth Station

*Proven solutions for Inm  
fully incorporated SSAS*



## Features of FELCOM18

- ▶ Inmarsat-C Ship Earth Station terminal for GMDSS application
- ▶ Full GMDSS compliance with optional printer and AC/DC power supply
- ▶ SSAS capability with SSAS Alert Units
- ▶ Compatibility with LRIT application
- ▶ Compatible with the following standard:  
IMO A.570(14), IMO A.664(16), IMO A.694(17), IMO A.807(19), IMO MSC.147(77),  
IMO MSC.36(63), IMO MSC.68(68) Annex 4, IMO MSC.97(73), IMO MSC.263.(84),  
MSC/Circ.862, IEC 60945 Ed. 4, IEC 61097-4 Ed. 2, IEC 61162-1 Ed. 4
- ▶ A wide variety of communication schemes available: telex, FAX, emailing, EGC, Data reporting/polling, etc.
- ▶ SD card for recording media
- ▶ GPS receiver (option)

Compatible with:

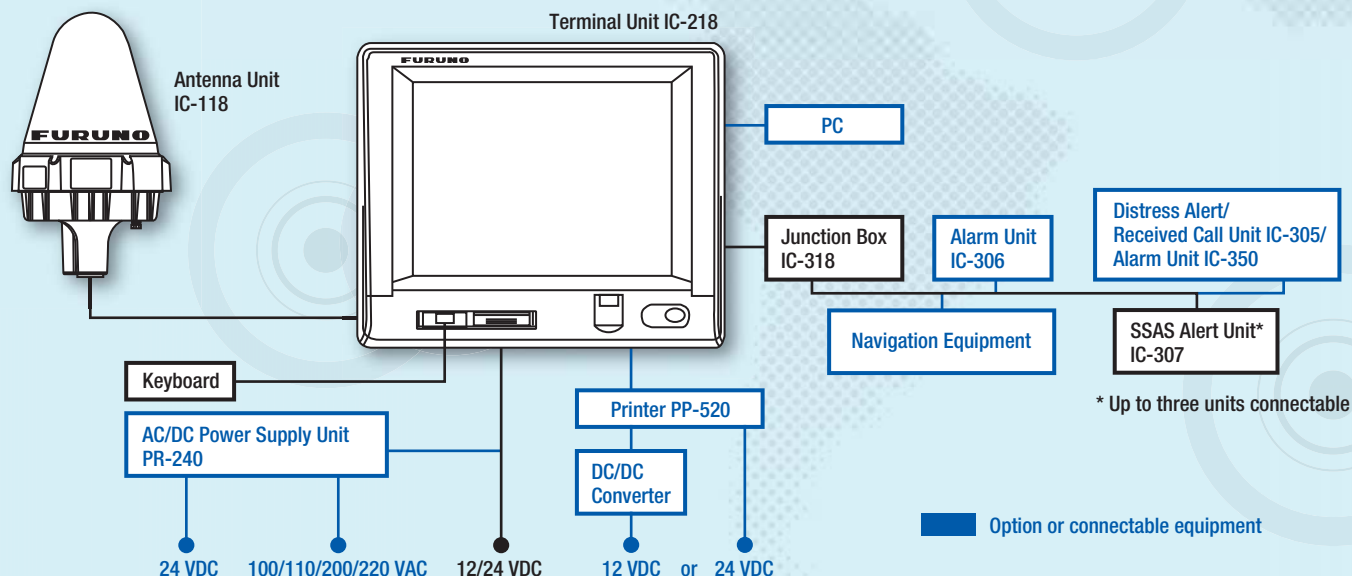
**GMDSS**  
Global Maritime Distress and Safety System

**LRIT**  
Long-Range Identification and Tracking of ships

**SSAS**  
Ship Security Alert System

Model: FELCOM18

## Interconnection Diagram





# Inmarsat-C/Inmarsat MINI-C services and LRIT capabilities



Compatible with:

**LRIT**  
Long-Range Identification and Tracking of ships

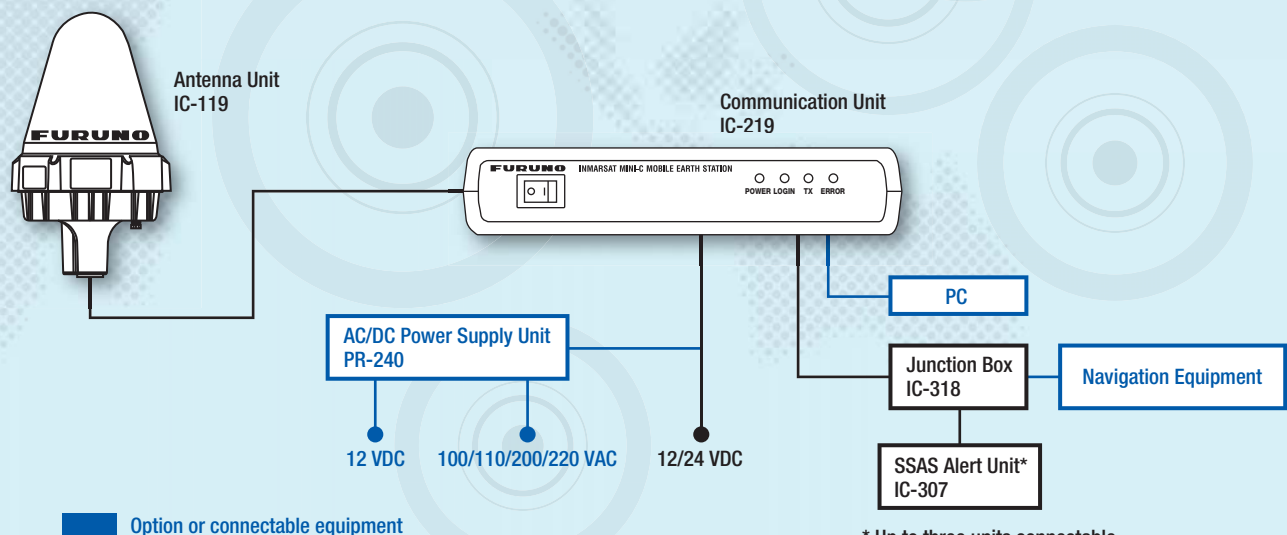
**SSAS**  
Ship Security Alert System

## Features of FELCOM19

- ▶ Inmarsat MINI-C Mobile Earth Station terminal
- ▶ Compatibility with LRIT application
- ▶ SSAS capability with SSAS Alert Units
- ▶ A wide variety of communication schemes available: telex, FAX, emailing, EGC (non-GMDSS), Data reporting/polling, etc.
- ▶ GPS receiver incorporated
- ▶ Black-box configuration allows flexible installation

Model: FELCOM19

## Interconnection Diagram



## SPECIFICATIONS

| Product Name               |     | Inmarsat-C Mobile Earth Station<br><b>FELCOM18</b> | Inmarsat MINI-C Mobile Earth Station<br><b>FELCOM19</b> |
|----------------------------|-----|----------------------------------------------------|---------------------------------------------------------|
| Frequency                  | TX: | 1626.5-1646.5 MHz                                  |                                                         |
|                            | RX: | 1537.0-1544.2 MHz                                  |                                                         |
| Channel Spacing            |     | 5 kHz                                              |                                                         |
| Modulation Rate and format | TX: | 600, 1200 sps Unfiltered BPSK                      |                                                         |
|                            | RX: | 1200 sps Unfiltered BPSK                           |                                                         |
| Minimum G/T                |     | -23.0 dB/K (at elv. 5°)                            |                                                         |
| Output Power               |     | 12-16 dBW (at elv. 5°)                             | 7-16 dBW (at elv. 5°)                                   |
|                            |     | 12-24 VDC                                          |                                                         |
| Power Supply               | TX: | less than 130 W                                    | less than 50 W                                          |
|                            | RX: | less than 60 W                                     | less than 10 W                                          |

## ENVIRONMENT

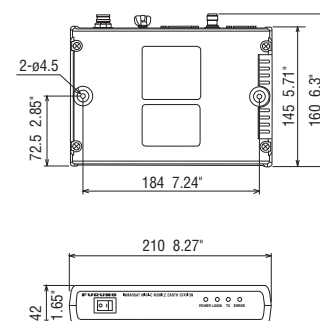
|                   |              |                               |
|-------------------|--------------|-------------------------------|
| Temperature       | Antenna Unit | -35 to +55°C (Storage: +70°C) |
|                   | BDE          | -15 to +55°C                  |
| Relative Humidity |              | 40°C 95%                      |

## EQUIPMENT LIST

|          |                                              |                                              |
|----------|----------------------------------------------|----------------------------------------------|
| Standard | 1 Antenna Unit with 30 m cable IC-118 1 unit | 1 Antenna Unit with 30 m cable IC-119 1 unit |
|          | 2 Terminal Unit with keyboard IC-218 1 unit  | 2 Communication Unit IC-219 1 unit           |
| Option   | 3 Junction Box IC-318 1 unit                 | 3 Junction Box IC-318* 1 unit                |
|          | 4 SSAS Alert Unit IC-307* 2 unit             | 4 SSAS Alert Unit IC-307* 2 unit             |
|          | 5 Installation materials                     | 5 Installation materials                     |
|          | *applicable only for SSAS specification      | *applicable only for SSAS specification      |
|          | 1 Distress Alert/Received Call Unit IC-305   | 1 AC/DC Power Supply Unit PR-240             |
|          | 2 Alarm Unit IC-306                          | 2 SSAS Alert Unit IC-307**                   |
|          | 3 AC/DC Power Supply Unit PR-240             | 3 Junction Box IC-318**                      |
|          | 4 GPS Board Kit                              | 4 Printer PP-520                             |
|          | 5 SSAS Alert Unit IC-307**                   | **applicable only for non-SSAS specification |
|          | 6 Printer PP-520                             |                                              |
|          | **applicable only for non-SSAS specification |                                              |

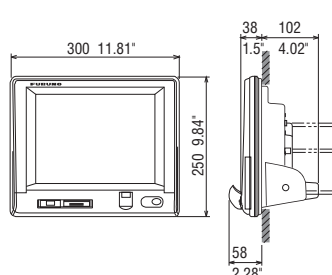
## Communication Unit

**IC-219**  
1.2 kg 2.65 lb



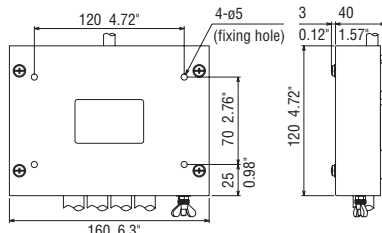
## Terminal Unit

**IC-218**  
4.2 kg 9.26 lb



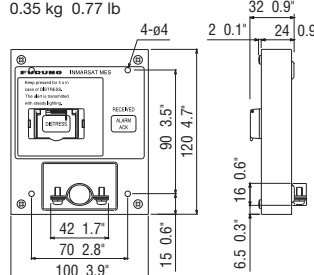
## Junction Box

**IC-318**  
weight: TBC



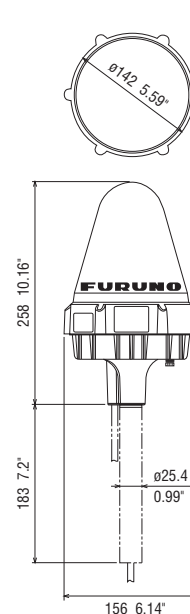
## Distress Alert/Received Call Unit

**IC-305**  
0.35 kg 0.77 lb



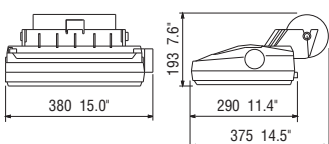
## Antenna Unit

**IC-118/IC-119**  
1.4 kg 3.09 lb



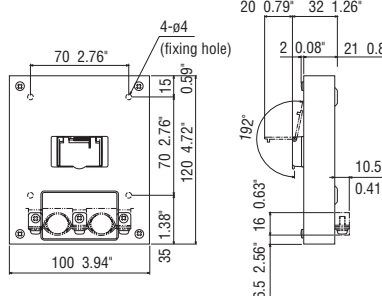
## Printer

**PP-520**  
4.8 kg 10.6 lb



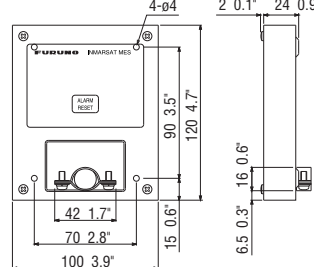
## SSAS Alert Unit

**IC-307**  
0.35 kg 0.77 lb



## Alarm Unit

**IC-306**  
0.33 kg 0.7 lb



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14073SK Printed in Japan  
Catalogue No. W-3265c