



# LT-4200S GMDSS SATELLITE COMMUNICATIONS SYSTEM

## IRIDIUM CERTUS® 200 MARITIME

designed and built for the demanding and rough environment at sea

## IRIDIUM GMDSS

The LT-4200S GMDSS System is an Iridium satcom product supporting all GMDSS requirements for SOLAS vessels with 100% global coverage. The LT-4200S GMDSS System is fully compliant and tested towards the new GMDSS standard IEC 61097-16 (2019). The LT-4200S GMDSS System is MED / Wheelmark approved.

## LT-4200S GMDSS IN SHORT

The LT-4200S GMDSS System is small and compact. No requirements for either message terminal or printer. The LT-4200S GMDSS System offers the Iridium GMDSS services, High quality Voice (3 channels), and IP Data. The built-in GNSS/GPS receiver supports tracking functionality and can output NMEA 0183 position data. The LT-4200S GMDSS System can interface to external BAM and ECDIS systems. The Antenna Unit can be installed up to 150 meters from the Control Unit.

- **100% global coverage**
- **Distress Alert & Distress Call**
- **Maritime Safety Information (MSI)**
- **BAM & ECDIS interface**
- **3 X Voice Channels (high-quality)**
- **IP-data: Up to 176 kbps (up/down)**
- **IP-data management (configuration of outgoing firewall, port forwarding, etc.)**
- **Up to 150 m antenna cable**

## PRODUCT DESCRIPTION



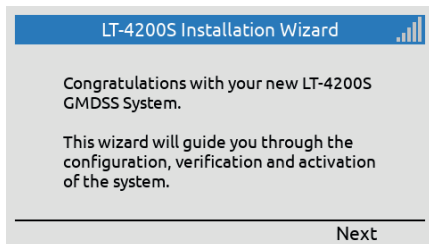
The standard LT-4200S GMDSS System is offered in a version that includes control unit & bracket mount, handset & cradle, antenna unit & power cable. The standard version fulfills all the GMDSS basic requirements. Additional services like SSAS, GMDSS Alarm Panels and printer, will require the LT-3140S Interface Unit.

## INTERFACE UNIT

The LT-3140S Interface Unit supports:

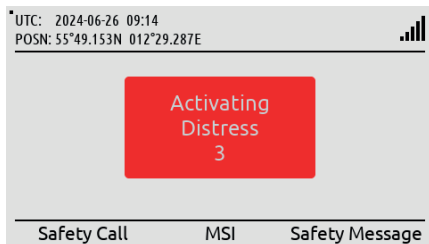
- **3 x LT-3150S Alarm Panel**
- **1 x LT-3160S Printer Adapter**
- **3 x SSAS Alert button (coloured red)**
- **1 x SSAS Test button (coloured green)**
- **2 x RS-422 (BAM / MSI / GNSS)**
- **4 x Ethernet (LT-4210S CU, PC, future use)**





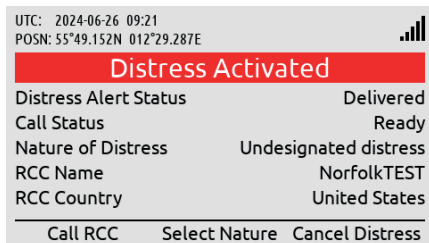
## Installation Wizard

The installation and setup of the LT-4200S GMDSS system has been made user-friendly by adding an Installation Wizard that will guide you through the initial configuration and activation of the system on the Iridium GMDSS System (IGS).



## Activating Distress

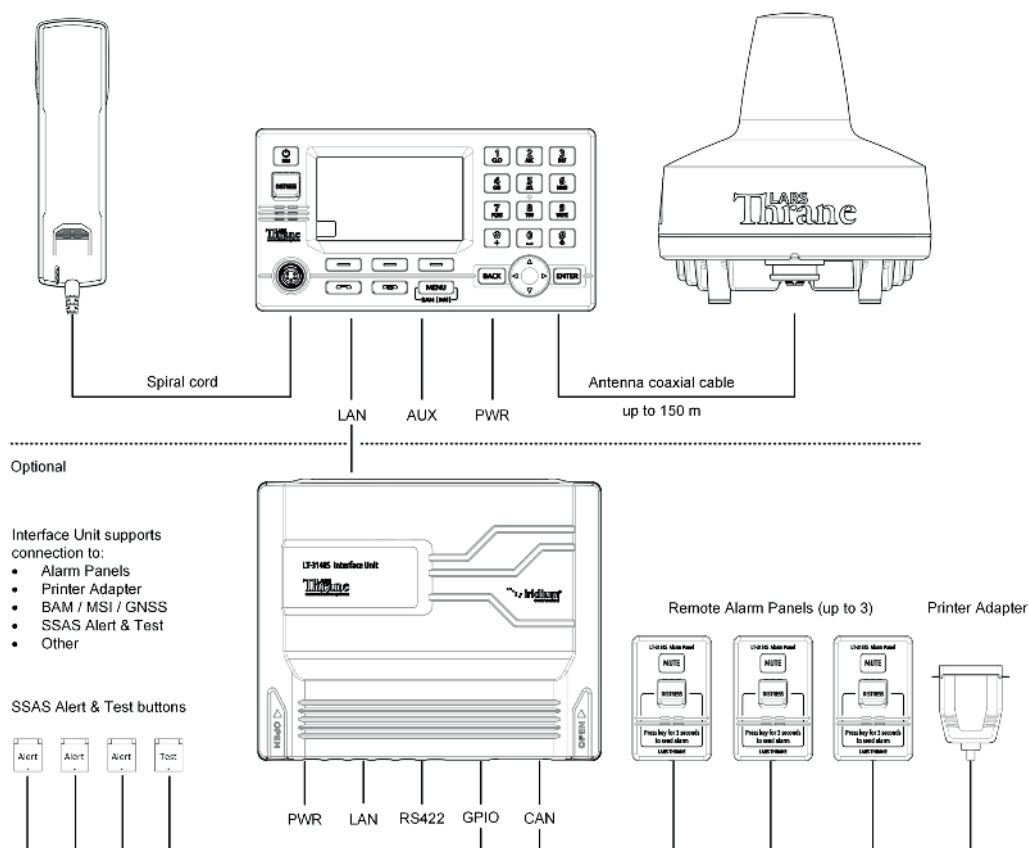
Distress Alert can be activated by pushing the DISTRESS button on the front of the control unit. A Distress Alert message will be sent to the Iridium GMDSS System (IGS) and immediately forwarded to the Rescue Coordination Center (RCC).



## Distress Call

The LT-4200S GMDSS System is supporting both Safety Calling (priority) and General Calling (non-priority). The terminal can be configured to automatically setup a Safety Voice call (priority: Distress) to the RCC, if the DISTRESS button has been activated.

# SYSTEM CONFIGURATION



# SPECIFICATIONS

## LT-4200S GMDSS SATELLITE COMMUNICATIONS SYSTEM

Certification & standards	Maritime CE, FCC, ISCED, RCM, RED, MED (Wheelmark), MER, RoHS 2, Iridium®
Vibration, operational	IEC 60945
Vibration, shock	Half sine 20 g/11 ms
Compass Safe Distance, std.	0.3 - 1.4 m (1.0 - 4.6 ft)
Compass Safe Distance, steer.	0.3 - 0.9 m (1.0 - 3.0 ft)
Power consumption: Transmit, max	164 W
Power consumption: Receive	34 W

### LT-4210S Control Unit

Weight	0.67 kg (1.48 lbs)
Dimensions	224.0 x 120.0 x 70.0 mm (8.82 x 4.72 x 2.76 in)
Temperature, operational	-15°C to +55°C (+5°F to +131°F)
IP rating, dust and water	IP32
Interfaces	Ethernet, auxiliary, DC input, chassis ground Antenna Unit (N conn.), handset, SIM card
Input power	24 VDC (8 A)

### LT-3120 Handset Unit

Weight (handset + wire)	0.30 kg (0.66 lbs)
Dimensions	52.8 x 208.8 x 38.2 mm (2.08 x 8.22 x 1.50 in)
Temperature, operational	-15°C to +55°C (+5°F to +131°F)
IP rating, dust and water	IP32

### LT-4230 Antenna Unit

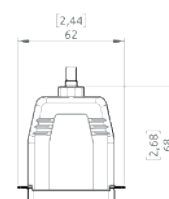
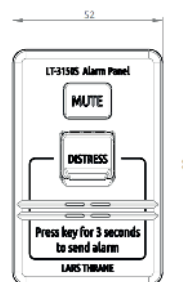
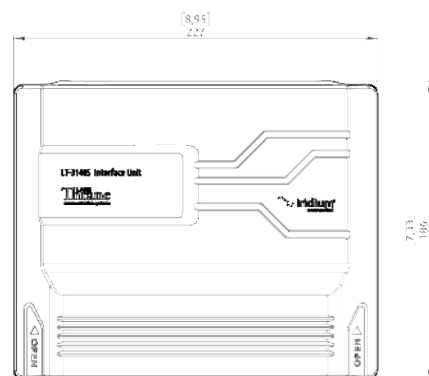
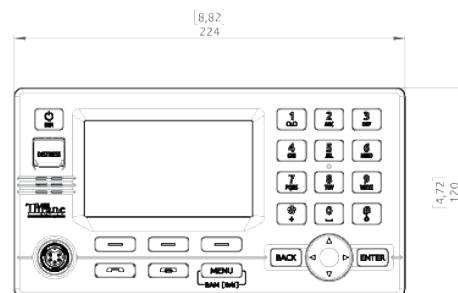
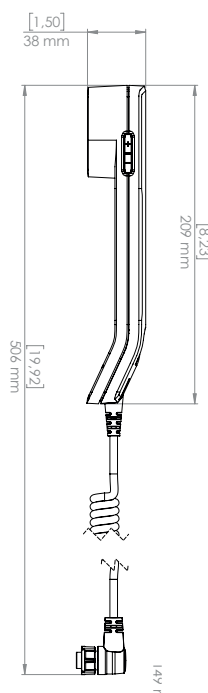
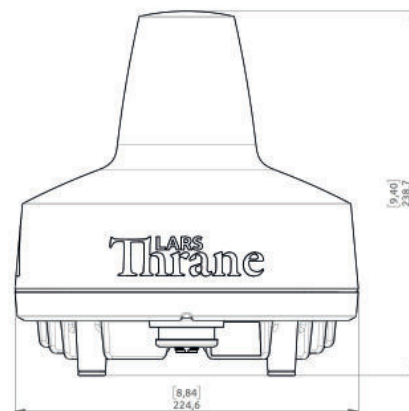
Weight	3.70 kg (8.16 lbs)
Dimensions	238.7 x Ø 224.6 mm (9.40 x Ø 8.84 in)
Temperature, operational	-40°C to +55°C (-40°F to +131°F)
IP rating, dust and water	IP67
Interfaces	Control Unit (N conn.)
Antenna communication cable	Coaxial cable, up to 150 m (500 ft)

### LT-3140S Interface Unit

Weight	0.71 kg (1.57 lbs)
Temperature, operational	-15°C to +55°C (+5°F to +131°F)
IP rating, dust and water	IP20
Interface	4 x Ethernet, 2 x RS-422, 4 x GPIO, 4 x CAN, DC input, chassis ground
Input Voltage	24 VDC (0.4 A)

### LT-3150S Alarm Panel

Weight (incl. 25m cable)	0.07 kg (0.15 lbs) / 1.29 (2.84 lbs)
Temperature, operational	-15°C to +55°C (+5°F to +131°F)
IP rating, dust and water	IP30
Interface	CAN
Warranty	2 year
Maintenance	None



## IN THE BOX

LT-4210S Control Unit	P/N: 51-103118
LT-3120 Handset	P/N: 51-100988
LT-3121 Cradle	P/N: 51-101181
LT-4230 Antenna Unit	P/N: 51-102640
Bracket Mount, Control Unit	P/N: 91-100771
Power Cable, 3m	P/N: 91-102118
User & Installation Manual	P/N: 95-104746

## ACCESSORIES

Flush Mount, Control Unit	P/N: 91-100772
Pole Mount (2.0" pipe, Ø53.0mm, A4 Stainless),	P/N: 91-102967
Antenna Unit	
Auxiliary Cable, 3m	P/N: 91-100768
Coaxial Cable Ø10.3mm (up to 150m)	
Crimping Tool for Coaxial Cable Ø10.3mm	



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