LT-4200S GMDSS SATELLITE COMMUNICATIONS SYSTEM
IRIDIUM CERTUS® 200 MARITIME

designed and built for the demanding and rough environment at sea

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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.)
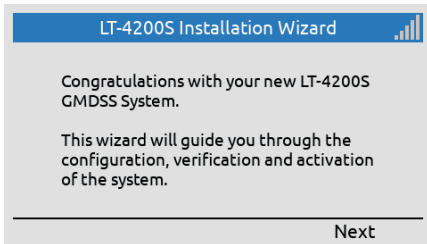- Up to 150 m antenna cable

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
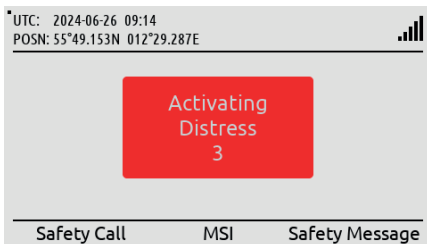
The LT-3140S Interface Unit supports:
- 3 x LT-3150S Alarm Panel
- 1 x LT-3160S Printer Adapter
- 3 x SSAS Alert button (coloured red)
- 1 x SSAS Test button (coloured green)
- 2 x RS-422 (BAM / MSI / GNSS)
- 4 x Ethernet (LT-4210S CU, PC, future use)

LT-4200S Installation Wizard

Congratulations with your new LT-4200S GMDSS System.

This wizard will guide you through the configuration, verification and activation of the system.

Next

UTC: 2024-06-26 09:14
POSN: 55°49.153N 012°29.287E

Activating
Distress
3

Safety Call   MSI   Safety Message

UTC: 2024-06-26 09:21
POSN: 55°49.152N 012°29.287E

Distress Activated

Distress Alert Status	Delivered
Call Status	Ready
Nature of Distress	Undesignated distress
RCC Name	NorfolkTEST
RCC Country	United States

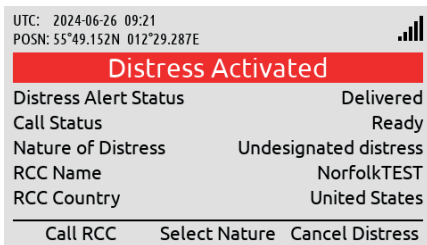Call RCC   Select Nature   Cancel Distress

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).
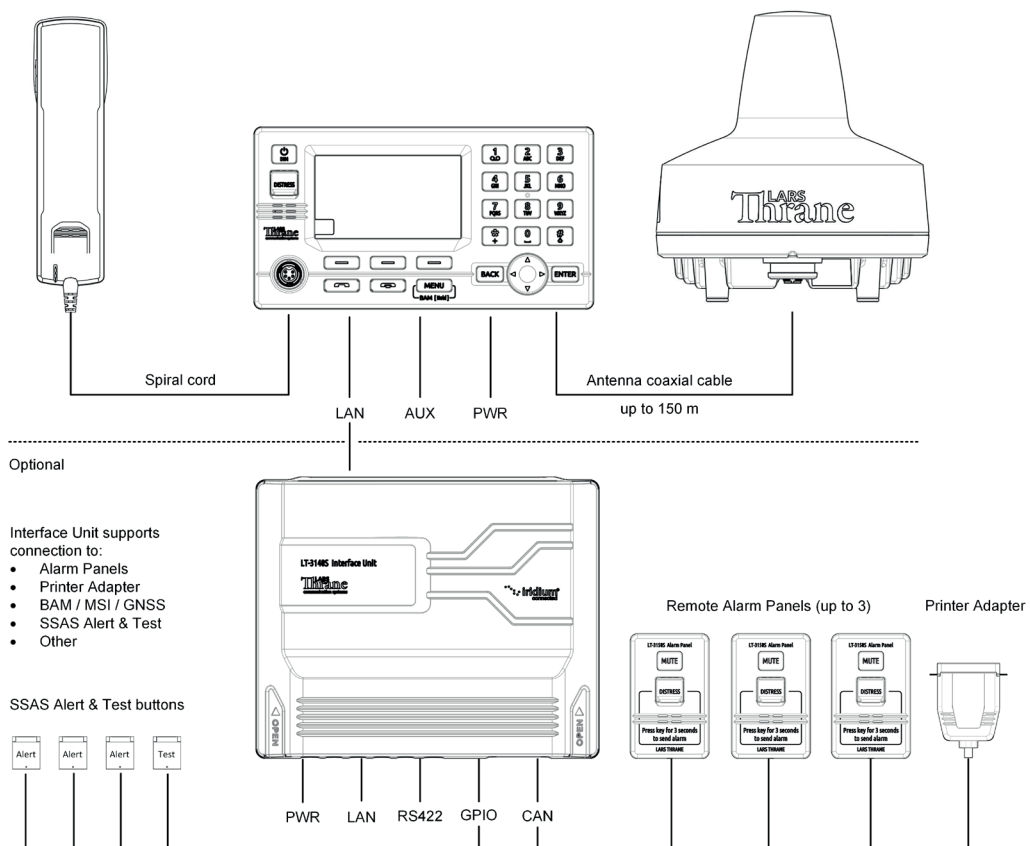
Activating Distress

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

Spiral cord

LAN   AUX   PWR

Antenna coaxial cable
up to 150 m

Optional

Interface Unit supports connection to:
• Alarm Panels
• Printer Adapter
• BAM / MSI / GNSS
• SSAS Alert & Test
• Other

LT-3145 Interface Unit

Remote Alarm Panels (up to 3)   Printer Adapter

SSAS Alert & Test buttons

Alert   Alert   Alert   Test

PWR   LAN   RS422   GPIO   CAN

SPECIFICATIONS

LT-4200S GMDSS SATELLITE COMMUNICATIONS SYSTEM

Certification & standards	Maritime CE, FCC, ISED, 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

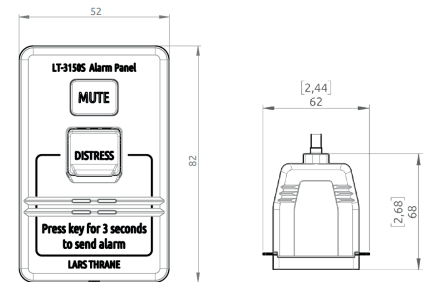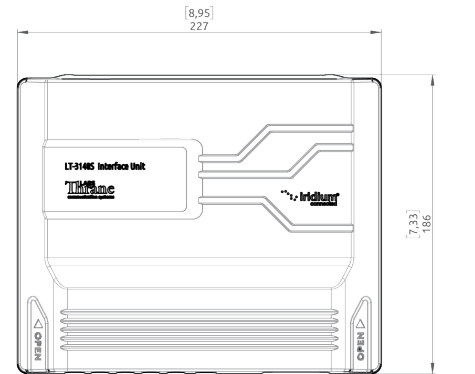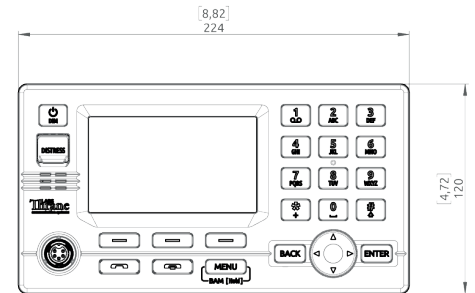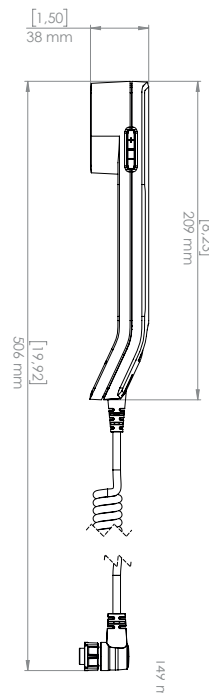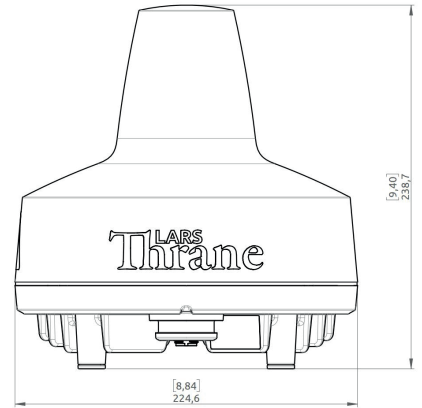|	
Weight (handset + wire)	0.30 kg (0.66 lbs)
Dimensions	52.8 x 208.8 x 38.2 mm (2.08 x 8.22 x 1.50 in)
Temperature, operational	-15°C to +55°C (+5°F to +131°F)
IP rating, dust and water	IP32

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), Antenna Unit	P/N: 91-102967
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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