



## Kannad SafeLink SOLO Personal Locator Beacon

A lifesaving distress beacon with buoyancy pouch included, designed for marine enthusiasts and adventurers. The SafeLink SOLO is the world's first Galileo Personal Locator Beacon (PLB), offering accelerated location detection with GPS and Galileo GNSS receivers.

The Kannad Marine SafeLink SOLO from Seas of Solutions, is a MEOSAR compatible PLB used on land and sea to provide direct access to the world's Search and Rescue professionals via the dedicated 406MHz frequency. The world's first multi constellation PLB, the SOLO uses both GPS and Galileo receivers to increase global detection coverage, offer precision location coordinates and accelerate the rescue process.

**World's first  
multi GNSS PLB:  
contains Galileo  
& GPS for greater  
global coverage  
& faster location  
detection.**



## How it works

The SafeLink SOLO PLB works by transmitting an emergency signal via the dedicated 406 MHz distress frequency, which is monitored by the global COSPAS-SARSAT satellite system, alerting international search and rescue services to the emergency situation and the ID of the PLB user. In addition, the integral 72 channel GNSS receivers give search and rescue services accurate location coordinates, which are frequently updated. The SafeLink SOLO PLB also transmits on the 121.5 MHz homing frequency so that when the emergency services get close to your coordinates they can 'home in' on the signal even in reduced visibility.

Whatever your reason for being on the water; work, sport or hobby; carry a SafeLink SOLO PLB, your personal emergency location beacon. The SafeLink SOLO PLB, through the 406 MHz international search and rescue satellite system, enables you to get in touch with the emergency rescue services anytime and anywhere in the world. Once activated the SafeLink SOLO PLB will transmit constantly for a minimum of 24 hours, and will operate at temperatures down to  $-20^{\circ}\text{C}$ . It also has an SOS LED flashing light that the user can switch on to aid rescue in the dark.

## SafeLink SOLO PLB features

- MEOSAR Compatible
- World's First Galileo PLB
- Multi constellation GNSS for accelerated global location detection
- Internationally approved
- Subscription-free & no call charges
- Compact, light and durable
- Waterproof to 10m and buoyant when used with flotation pouch
- True global emergency alerting via COSPAS-SARSAT satellites, 406 MHz international distress signal and 121.5 MHz homing signal
- 72 channel integral GPS & Galileo GNSS
- Minimum of 24 hours continuous operation
- Simple 3 stage activation (see below) to help prevent accidental activation
- Operates at temperatures down to  $-20^{\circ}\text{C}$
- SOS LED flash light to support low visibility detection
- Self-test up to 12 times per year
- 6-year replaceable battery life
- Flotation pouch, lanyard and universal pouch included



Multi Constellation GNSS  
for precision global coverage



MEOSAR Compatible  
will work with the new  
MEOSAR Network

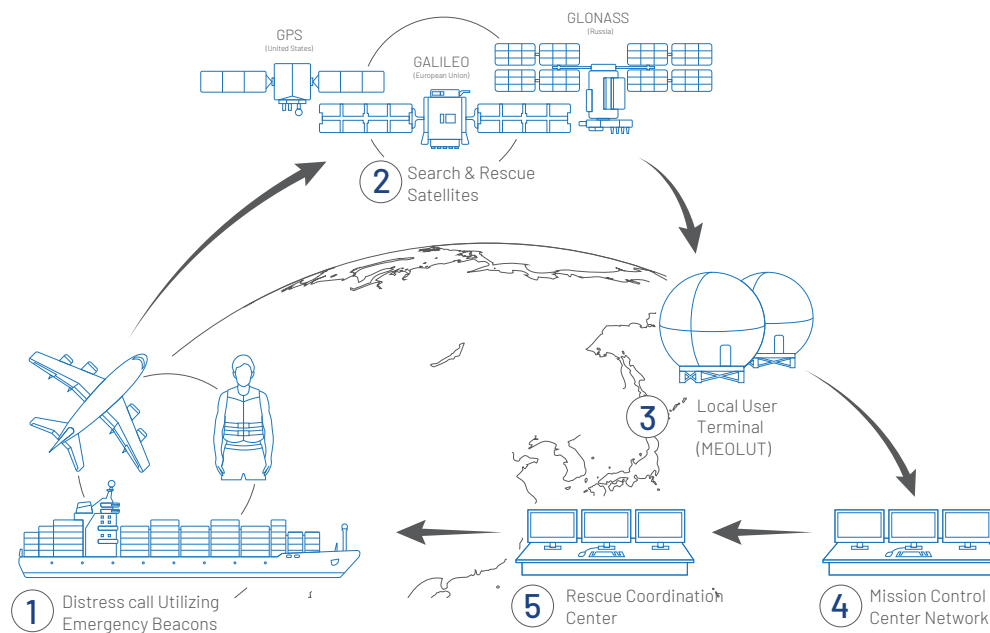


**1** Tear off red anti-tamper lid.

**2** Unfurl the antenna.

**3** Press the ON button.

# How the end-to-end satellite-based SAR Ecosystem works



1. A beacon distress signal is sent from aircraft, marine vessel or individual
2. Beacon positioning/location data is relayed by satellite communications to satellite ground stations or Local User Terminals(LUTs)
3. The Local User Terminal computes the location before sending alerts to the appropriate Mission Control Centers(MCC)
4. The Mission Control Center collects, stores and sorts the data received from LUTs and other MCCs and distributes alerts to associated Rescue Coordination Centers(RCC)
5. The Rescue Coordination Center notifies and coordinates emergency response/rescue teams

## Understanding the impact of MEOSAR

The MEOSAR program greatly improves accuracy, timeliness and reliability of the dedicated, free to use, 406MHz based Cospas Sarsat search and rescue system. Cospas Sarsat have rolled out new ground and space infrastructure, known as MEOSAR, with the aim to determine distress beacon location within 5km, 95% of the time, within 10 minutes.

- 72 MEOSAR satellites positioned at Medium Earth Orbit altitude
- Near instantaneous beacon signal detection using bent pipe technology – average 46 minutes faster compared to original LEOSAR satellites
- Reduced response times with multiple signal bursts to improve speed and accuracy of location calculation
- Close to 100% reliability due to multiple global antenna systems and MEOLUT networking
- In addition to MEOSAR technology, the program benefits from the addition of new GNSS capabilities on Galileo satellites, greatly improving global coverage and speed of location detection on GNSS receivers in beacons.
- As a result of the MEOSAR program, the latest generation of distress beacons will also have the ability to add a two-way signal, generated by the Galileo Return Link Service (RLS), that provides a re-assurance confirmation acknowledging signal receipt.

# SafeLink SOLO PLB Specifications

<b>Standards</b>	Cospas-Sarsat T.001/T.007 class2, RTCM 11010.2, ETSI EN 302152-1,, AS/NZS 4280.2, NSS-PLB11
<b>Sealing depth</b>	Immersion to 10m (30ft) for 5 mins
<b>Operating temperature</b>	-20 to +55°C (-4 to +131°F)
<b>Storage temperature</b>	-30 to +70°C (-22 to +158°F)
<b>Altitude</b>	12,192m (40,000ft)
<b>Buoyancy</b>	Category 2, will not float (keep in buoyancy pouch provided)
<b>Battery type</b>	Lithium Manganese
<b>Transmit duration</b>	> 24 hours @ -20°C (-4°F)
<b>Battery life (storage)</b>	6 years from date of manufacture
<b>Battery replacement</b>	Service centre
<b>Battery Use</b>	Logged by microprocessor
<b>Frequency</b>	406.031 MHz (alert) / 121.5 MHz (homer)
<b>Power</b>	5W (alert) / 50MW (homer) nominal
<b>Unique ID Number</b>	Factory or dealer programmed
<b>GNSS Receiver</b>	GPS(L1)+GALILEO(E1), 72 channel, ceramic patch antenna
<b>Size (D x W x L)</b>	36 x 50 x 112mm (1.42" x 1.97" x 4.40")
<b>Weight</b>	165g (5.08oz)
<b>Indicator Light</b>	High brightness LED signal light
<b>SOS flash light</b>	Morse code SOS flash pattern, 30 operations
<b>Activation</b>	Manual, three stage
<b>Self-test</b>	Tests transmitters, battery and light
<b>Warranty</b>	1 year (+ 4 years with online registration)
<b>Part Number</b>	K91-001-310A-C (SafeLink SOLO)

This PLB will not float unless held in the buoyancy pouch provided. A PLB is not an ELT or an EPIRB and does not meet the regulatory requirements for an ELT or an EPIRB.