

KEY FEATURES

- Safety monitoring of up to 12 Tags/crew
- Monitors network health and connectivity
- Alarm notification via LED display, strobe light and audio alert
- Automatically creates incident waypoint on chart plotter¹ and provides track back data
- Network management from a single point of command
- Switch input and relay outputs to connect to external devices e.g. sirens, emergency lights, engine cut-out etc.
- Variable power input 11 - 30V DC



Crewsafe Display Console



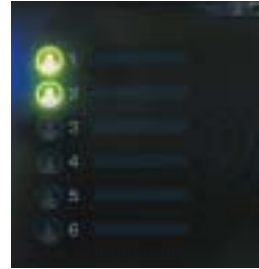
Push-buttons to raise, cancel and mute alarms



Surface, flush or bracket-mounted



Crewsafe monitors network health and GPS connectivity



Active Tags are illuminated on the LED display



Alarm notification via strobe, audio alert and LED display

Mobilarm Crewsafe is a wireless sensor network designed to improve the workplace safety of marine employees by keeping track of the crew at work at all times. A series of wireless routers creates a monitoring and reporting network that automatically detects emergencies involving personnel and initiates a full-scale alert within seconds of an incident occurring, such as man overboard. Each employee carries a small transceiver - a Crewsafe Tag - whose radio signal connects them to the wireless network via the Crewsafe routers. The network detects any loss of the radio signals and automatically raises the alarm.

The **Crewsafe Display Console** is the head router and controller for the network when the Crewsafe Management System is not in use. It continually monitors network health, GPS connectivity and the status of all active crew Tags (maximum 12), sending operational and alarm instructions to all system components when necessary. Any network or connectivity issue is reported on the LED display, and man overboard, manual and general alarms are indicated via the LED display, a high-intensity strobe light and the audio alarm.

When connected to a chart plotter¹ Crewsafe automatically logs a waypoint within 4 seconds of a Tag disconnecting unexpectedly from the network, providing crucial track back data in a man overboard emergency. A switch input and two relay outputs on the Display Console permit connection to and activation of other devices such as sirens, warning lights, emergency switches and engine cut-out when the Crewsafe alarm is raised.

All Crewsafe alarms can be muted to allow the operator and crew to focus on the emergency without distraction from alarm noise or strobe lights, which may affect night vision.

¹ Chart plotter must be NMEA- compatible - see "Serial Communications" overleaf.

SPECIFICATIONS

General	
Power Supply	11 - 30V DC
Maximum Power Consumption	5W
Operating Temperature	-15° to +70°C (+5° to +158°F)
Stowage Temperature	-20° to +70°C (-4° to +158°F)
Environmental Resistance	IP56
Compass Safe Distance	Safe when inactive at close range (500mm - tested as per IEC 60945 safe distance test); low EMF prior to unit activation
Dimensions	184 x 103.6 x 40mm (7.24 x 4.08 x 1.57in)
Weight	301g (10.62oz)
Case	Ingress sealed; UV-stabilised; impact resistant housing
Mounting Options	Surface, flush or bracket-mounted
Strobe	120° dispersion at 5 candela
Audio Alarm	70dB at 30cm (1ft) with 24V DC supply (when bracket mounted)
Certification	C✓; CE; FCC
Connections	
Serial Communications	2 x 4-wire interfaces; supports NMEA0183 specifications (compatible NMEA sentences: RMC; RMA; CGA; GLL; DSC/DSE; WPL; BWC; BWR)
Programming Interface	Infrared serial communications for firmware upgrades and device configuration
Relay Outputs (2)	Optically isolated for activation of additional alerting devices; supports a switching current of 1.5A at the supplied voltage, switched to ground
Switch Input	100mA switched to ground with a 5K input impedance
Relay 1 Output States (used for devices attached to the router)	
Open	Open during normal operation or if Display Console mute has been activated
Closed	Closes when any alarm is activated
Relay 2 Output States	
Open	Open during normal operation
Closed	Closes when any alarm is activated until the system is restored to normal operation
Controls	
Power Button	Switches network on/off
Alarm Button	Raises/cancels general alarm; mutes active alarms
Dim Button	Changes brightness of LED display (4 settings)
Display	
Tag Status LED (1 - 12)	Status of active Tags: green - safe; red - MOB/duress; flashing orange - low battery; solid orange - charging in Power Dock
Network LED	Network connectivity status
GPS LED	GPS connection status
Strobe	Flashes in alarm mode
Alarm Notification	
MOB Alarm	10 secs (nominal) after Tag disconnects; Tag status LED turns red; strobe light flashes; piezo alarm sounds
Duress Alarm	4 secs (nominal) after activation; Tag status LED turns red; strobe light flashes; piezo alarm sounds
General/Manual Alarm	Immediate (nominal) after activation; strobe light flashes; piezo alarm sounds; no change to Tag status LEDs
Network Fault	Network LED flashes blue (long, slow)
Network Connection Lost	Network LED flashes blue (short, fast)
GPS Fault	GPS LED solid red
Router Failed	Network LED solid red

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