

2020

GUARDIAN SOLO

DECK VERSION

Marine Lone Worker Protection

Information Brochure



C-VIGIL Ltd : marine (CVM)

In
association
with



C-VIGIL Ltd : marine (CVM)
GUARDIAN SYSTEMS





Establishing a healthy and safe working environment for lone workers can be different from organizing the health and safety of other crew members - they should not be put at more risk than other crew working onboard.

It will often be safe to work alone. However, managers should think about and deal with any health and safety risks **before** people are allowed to do so.

One option is to provide these crew members with lone worker protection and emergency calling equipment; thereby improving the chances of a successful outcome should the worst happen.

Protection can be provided for: -

- Engineering Areas
- Catering Areas
- Deck Areas

Automatic Wireless Lone Worker Protection & Emergency Calling Systems

SOLO
Lone Worker Systems

Ventus
Wind Turbines Safety

SeaVu
CCTV Systems

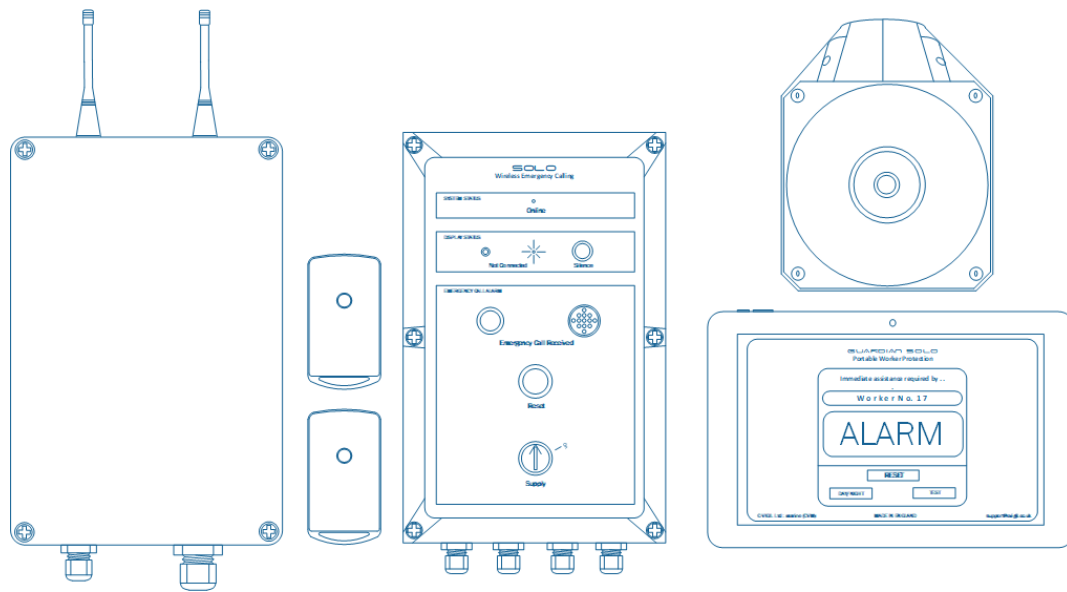
Klarion
Acoustic Area Denial

ThermoGuard
Remote °C monitoring

Elev8tor
Lift Car Indication

Portable Wireless Emergency Calling from Deck Areas, Tanks, Holds, Cofferdams...etc

Remember – it's better to have it and not need it, then to need it and not have it!



**Wireless Emergency Call
Keyfob Transmitter**

Portable wireless keyfob emergency calling for workers who find themselves in vulnerable and isolated situations. 200m range to receiver cluster.

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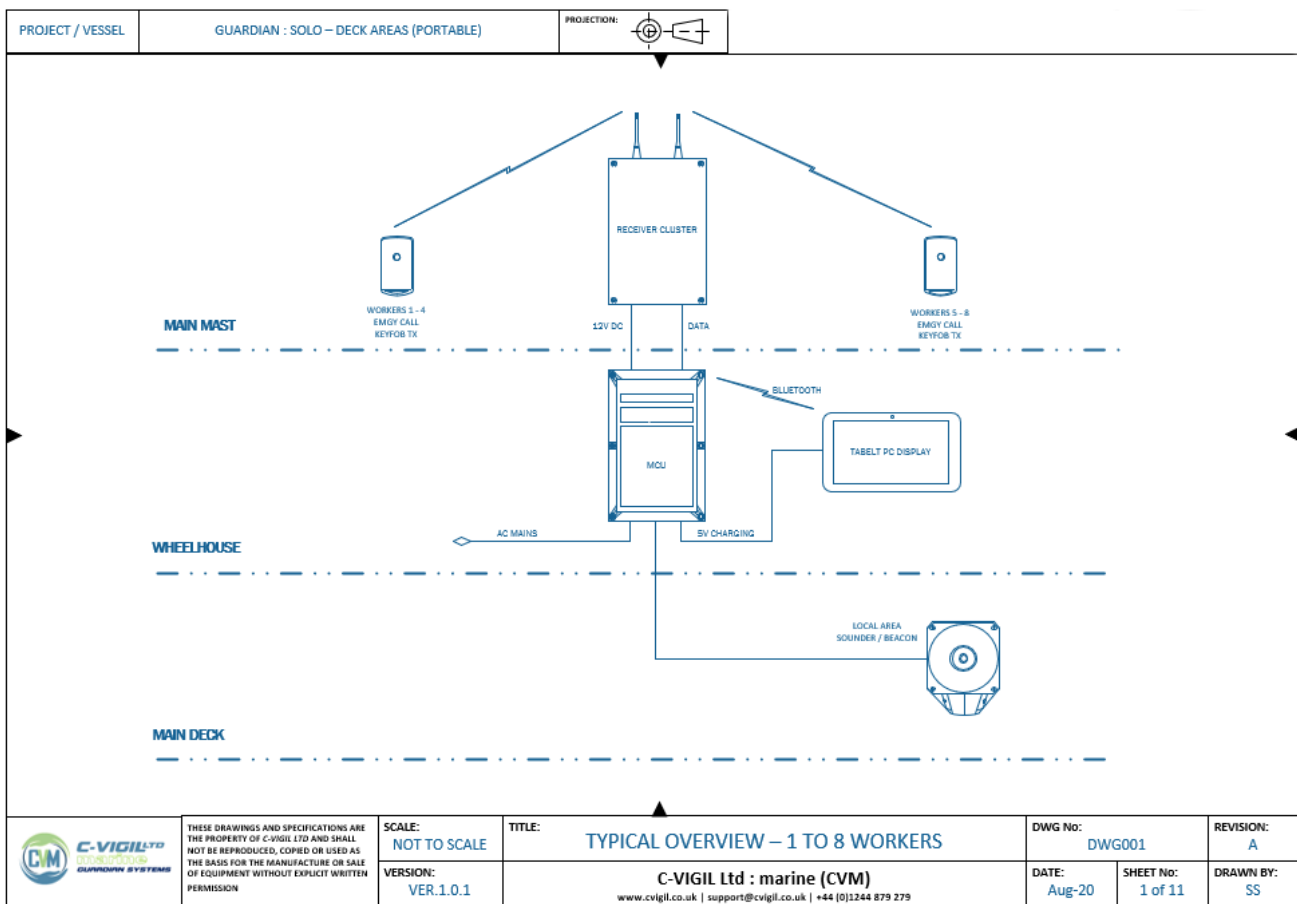
SOLO is intended to supplement any existing protection systems already in use.

It is often the case that deck workers will find themselves alone on open deck areas, working in tanks, cofferdams, cargo holds . . . etc for protracted periods i.e. during upgrading, repairs and routine maintenance duties.

SOLO consists of portable wireless keyfob transmitters that remotely activates a relay in the receiver cluster – each receiver board having 4 relays. On activation a coded data packet is sent to the main control unit (MCU) and displayed on a tablet PC - located in the wheelhouse or other manned position - for easy identification of the worker in trouble, the data packet carries a unique worker ID number.

Alarms are then activated at the MCU and on deck (if required).

Typical Overview



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RECEIVER CLUSTER 1 – 8 WORKERS (EXPANDABLE)



Rugged IP66 ABS enclosure.
Size depends on number of receiver boards fitted – figure shows 2 boards fitted (1 to 8 workers).
Holds processor PCB & data transmission PCB (ethernet).
Supplied with 12V DC from MCU.
To be fitted as high as possible (to increase range to keyfob transmitters).

KEYFOB TRANSMITTER



One button operation – press and hold (>2 secs) to initiate emergency call.
200m range to receiver cluster (clear line-of-sight).
Long life coin cell battery.
868MHz license free frequency.

MAIN CONTROL UNIT (MCU)



Receives worker ID emergency call data from receiver cluster.
Local 75db sounder and LED indicator to alert staff of received emergency call.
Connects by Bluetooth to the tablet PC.
Alarm if disconnected from the display.
Powered from AC mains supply.

TABLET PC DISPLAY



Displays emergency call information – unique worker ID number,
10.1" Tablet display.
Windows 10.
Charges from MCU.
Wall mounted with brackets provided.

*Full Turnkey Projects Bespoke Design,
Cabling Installation Testing & Commissioning*

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DECK WIDE AREA HIGH OUTPUT KLAXON



High output industrial sounder
Multi-tone selection
116dB @ 1m
IP65
Alarm sounder for wide area signalling

***Bespoke systems
available on
request***

-or-

***Select various
equipment for your
specific
requirements***



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