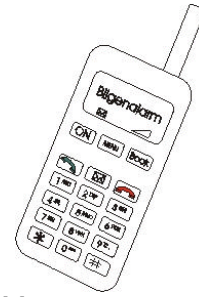


YOUR SHIPS UNDER CONTROL?

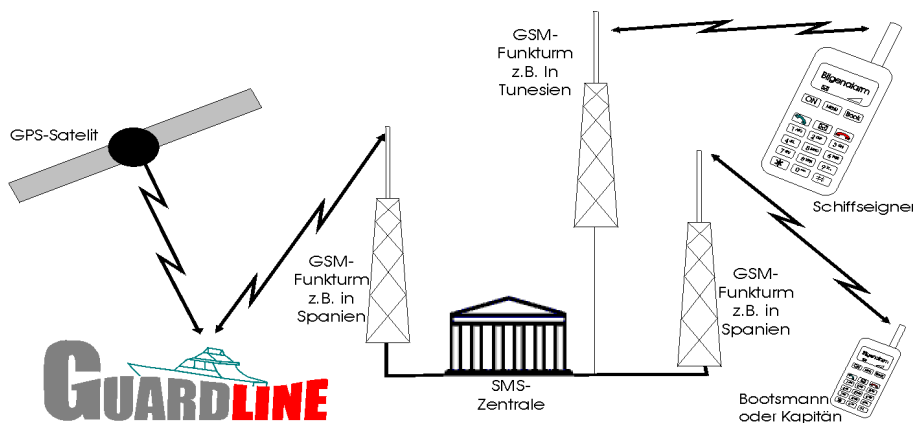
Our new GUARDLINE SYSTEM makes it easy. You need only a mobilphone.



Check from Thailand the voltage of the servicebatteries:
Check from Genua the position of the ship:
Check from South africa the temperature of the batteries:
Start from France the generator:
additional: you get automatically a message when:
the Battery is hot, the voltage to high / to low, Water in ship,
fire, break in, no shorepower.

**no problem
no problem
no problem
no problem**

Connection to our alarmservicecenter is possible.
Your own alarmservicecenter is easy and cheap installed.
Info: guardline@yachttechnik.com



Create your own application ?

No problem, with the GUARDLINE-MASTER CD-ROM.

The GUARDLINE MASTER CD-ROM shows you the complete hard and software of the system. There is a detailed description of the AT command structure, a lot of example's, and all technical dates of the hardware.

The Guardline Processor System is easy programmable. You use only AT-commands. There are 8 digital outputs, 8 digital Inputs, 10 analogue Inputs available, and 4 serial devices.

Information:
www.guardline.de

Espana
fax: 971-236203

Deutschland:
fax: 0231-9070356

Fort Lauderdale
fax: 1 (954) 252-3742

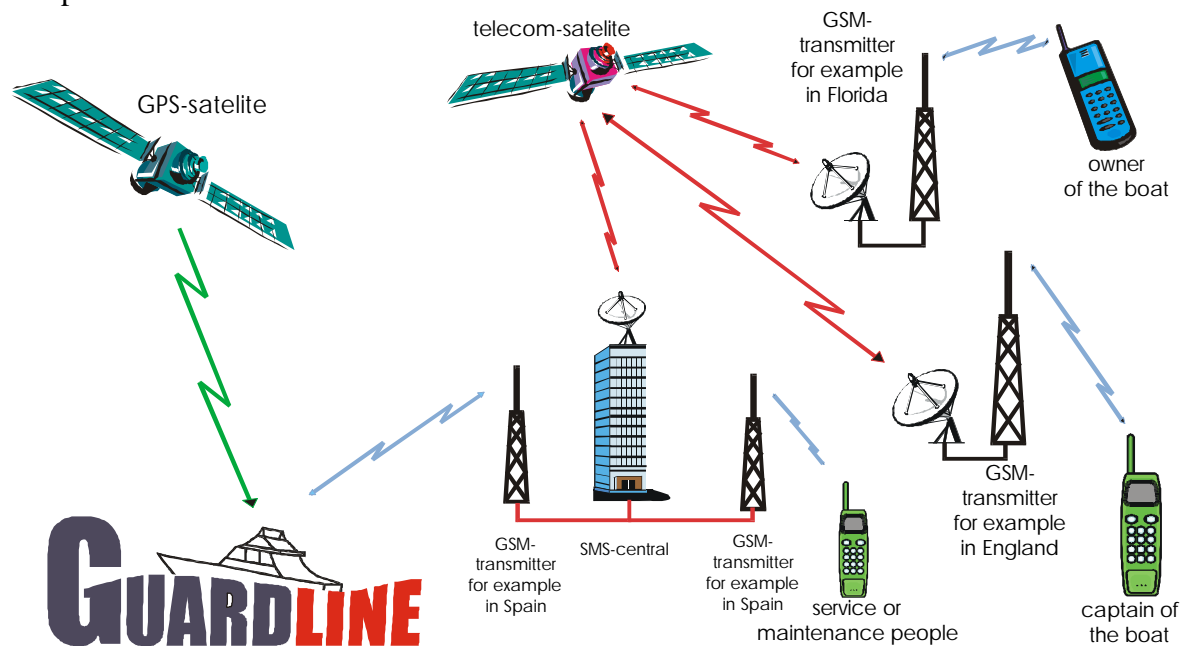


C./ Mallorca 34a, 07150 Andraitx, Baleares, Spain
Tel/Fax 0034-971-236203, mobil 0034-629-482149
www.YACHTTECHNIK.com

GUARDLINE

DESCRIPTION OF THE SYSTEM

Guardline is a universally applicable system for supervision and control. It uses a 32bit microprocessor and a gsm-module to monitor several alarms and data and sends these directly to the mobile telephone of the yachtowner or caretaker, without going through a central computer.



The GUARDLINE SYSTEM uses the already existing, almost global GSM networks. It operates on D1, D2, PTT, Movistar, etc and is even compatible with other systems like IRIDIUM and INMARSAT. The GPS navigational system can also be networked to GUARDLINE, offering the ships position, speed and direction on call anytime. Transmissions are clearly shown as text on the display of your mobile phone. Up to three different telephones can be informed of each alarm condition.



The central device of the GUARDLINE SYSTEM is extremely compact, measuring only 170 x 105 x 70mm and can unobtrusively be installed almost anywhere on board.



The power connection can be to a 12 or 24v ships supply and the consumption at 24v is 100mA.

The package includes all required sensors, to be simply plugged into the central device. The detailed description is on the back of this page.

INFORMATION:



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BASIC SYSTEM Specification:

The GUARDLINE SYSTEM RECOGNIZES the following alarms and sends them to three different mobile phones. The state of all sensors can be checked by phone at any time, anyway, almost all sensors check themselves and inform you by phone of any malfunction.

Bilge alarm: Message: „Waterlevel high on MY Neptune“

At the same time the external strobe light is activated.

Battery alarm: Message:

„M.Y. Neptune overvoltage: main 27,8V motor 26,3V gen. 15,5V“

„M.Y. Neptune undervoltage: main 23,5V motor 26,3V gen. 13,8V“

„M.Y. Neptune overheat: main 38°C motor 52°C gen. 32°C“

For hot batteries the external strobe light is activated.

Shore power alarm: Message: „No Shore Power on MY Neptune“

The alarm is triggered after 1h without Shore Power.

Break in: Message: „Break in on MY Neptune“

At the same time the strobe light and the 110dB Siren is activated. The Alarm is triggered by manipulation of the keypad and the starting of the motor can be blocked.

Free alarm input: Message: „free programmable“

A normally closed loop is available for your own alarm.

Free programmable alarm: Message: „free programmable“

A alarm can be programmed by yourself. Details you will find on CD-ROM.

Printer output:

A serial printer (Bonprinter) can be connected on port 2 for printing out all short messages except system-commands. It can be used even printing the weather report or other information.

The package includes:

GUARDLINE CENTRAL UNIT, I/O Box, 2 bilge sensors, 2 magnet contacts for break in alarm, keypad for break in, Connection cable for battery with temperature sensor, 220V Sensor, strobe light siren 110dB, manual, CD-ROM.

You find a program manual on the GUARDLINE Basic CD-ROM, **but the system can be deliver full programmed too.** The program and the telefonnumbers can be changed later from anywhere via short message.



BASIC GPS Specification:

Contains GUARDLINE BASIC plus internal GPS.

The position can be transmitted daily. After break in the position is transmitted hourly. The position, speed and direction can be called up anytime.

Leave sector: Message:

„M.Y. Neptune leave the allowed sector in direction 45°“

The allowed sector can be programmed by yourself. Details you will find on CD-ROM.

The positions data are deliver on port 1 in NMEA-format.

INFORMATION:



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CHARTER SYSTEM:

The Guardline Charter System is a simplified Basic GPS System, tailor made to suit the requirements of the charter company at a better price. Daily the Charter System will send the position of the ship to up to three mobile phones or monitoring stations. And of course, the condition of the alarm sensors, the position, heading and speed of the ship can be checked at any time. When the yacht is sold, the Charter System can simply and cheaply be upgraded to a complete Basic-System. The Guardline Charter System recognises the following alarms:

Bilge alarm: Message: „Waterlevel too high on *SY Neptun*“

Battery alarm: Message: „Voltage 14,8V too high on *SY Neptun*“
Message: „Voltage 10,9V too low on *SY Neptun*“
Message: „Batteries too hot on *SY Neptun*“

Leaving the permitted area: Message: „*SY NEPTUN* is leaving the permitted area, heading 180° from Position: 2.35.55O 39.51.50N.“

And the position, heading and speed of the ship can be transmitted hourly.

The permitted area can be configured by storing a waypoint and a radius. You can define maximal 64 areas. The waypoints can be changed by sending a special code by cellular phone.



Charter System includes: GUARDLINE CENTRAL UNIT, I/O Box, 1 Bilge sensor, connection cable to battery with temperature sensor, instructions.

Options:

..... **Extra sensors for bilge alarm**

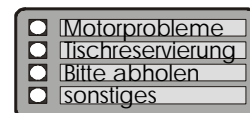
Switched contact to lock the **Motor** by mobile phone;

Handset to contact the charter company in an emergency. A preprogrammed number is dialed automatically when the handset is lifted .

Small printer for storm warnings and weather reports;
storm warnings will always be sent, the daily weather report must be paid for weekly by the client, at a reasonable price.

Small **Panel with 4 buttons**, to send 4 different messages to the charter company.

The position is of course integrated in the message.



Complete monitoring station that allows you to see all your ships with messages on a single chart. An existing PC can be used with our Software.

Connection to our monitoring station.

With the GUARDLINE MASTER CD, you be able to create own applications

INFORMATION:



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Tel / Fax 0034-971-236203



OEM SYSTEM Specification:

Create your own application !

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The central device of the GUARDLINE SYSTEM is extremely compact, measuring only 170 x 105 x 70mm and can unobtrusively be installed almost anywhere on board.



The Guardline Processor System is easy programmable. You use only AT-commands. There are 8 digital outputs, 8 digital Inputs, 10 analogue Inputs available, and 4 serial devices. The processor is available with integrated GPS and GSM Modem. A connection for a analogue fax and analogue telephone is possible. The normal fax will be transmitted by GSM to any fax in the world.

See technical details!

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