

SentinelPoint

User Manual

Intelligent Devices 

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Contents

Welcome.....	3
Installation	4
Inserting the SIM	4
Attaching the battery	4
Installing the device	4
Switching on the SentinelPoint.....	5
Current consumption	5
LED code	5
SMS commands.....	6
Voice commands	6
SentinelPoint app	7
Core features	8
GPS information.....	9
Technical Specification.....	10
Legal information.....	11
Disclaimer	11
Warranty	11
Terms and conditions of sale	11
Contact us	13

Welcome

Congratulations on receiving your SentinelPoint. This booklet will provide you with the full technical information to make the most of your device. For technical support or other queries please contact the technical support team at support@yacht-sentinel.com, call +44 (0)1932 506 173 or refer to the Getting Started guide included with the product.

About Sentinel Point

SentinelPoint is a waterproof boat monitoring and tracking system for fixed installation in all types of vehicle or machinery. The device comprises of a GPS receiver, internal patch antenna, wireless GSM module, and internal LiIO back up battery.

The device is designed to be directly linked to a 12v or 24v power supply whilst using very low power consumption, enabling the device to be attached for long periods of time without draining the vehicle battery.

The Sentinel Point operates using a standard PAYG or text only contract SIM card, the contact number of the device is the phone number assigned to the SIM – this allows you to text your boat as you would a friend.

Your device can communicate with up to three numbers pre-registered by the main user, sending alerts and alarms to these numbers to give you the best opportunity to respond in an emergency as well as to have full access to the number of enjoyable leisure features the device offers.

Installation

You can install the SentinelPoint yourself, or contact an authorised installer as listed on our website www.yacht-sentinel.com or recommended by the dealer. To install the SentinelPoint you will need:

- A 2.0mm flathead screwdriver
- A SIM card
- Double sided tape or Velcro

Step one – inserting the SIM

To insert the SIM, first unscrew and remove the lid of the device. Lift the SIM holder and slide the SIM card in notched edge first, then press the SIM holder back down to lock the SIM in place.



Step two – attaching the battery

Using the battery lead attached to the SentinelPoint, attach the red wire to the positive side of the vehicle battery and the black wire to the negative side. When the cable is correctly attached a green LED should start to flash, please refer to the LED code table on the following page for information about what the flashing code means.

Step three – installing the device

To attach the SentinelPoint to your vehicle you will need the double sided tape or Velcro. Attach the device to a non-metallic surface with the side with the orange sticker on facing up. Do not install the device underneath a metal covering, as this hinders the GSM and GPS signal and may impair the function of your device.

On an outboard engine we recommend that you install the SentinelPoint under the casing using tape, making sure that you can safely access the device if need be. On a small boat or jet ski we recommend installing the SentinelPoint near the dashboard alongside other electronics for ease of access.

Switching on the SentinelPoint

To switch on the device simply connect the external power supply. The LED will flash three times to indicate the SentinelPoint is switched on.

To switch off the device send the SMS command "PWDDOWN!" and remove the external power supply. The LED on the SentinelPoint will now flash three times to indicate that the device is switching off. Due to the internal design of the SentinelPoint it is only possible to fully turn off the device if the external power is disconnected and the command is sent.

The internal battery of the SentinelPoint can become fully discharged if the device is switched off and the external power is disconnected for a long time (typically more than 25 days). When the device is next switched on it will enter a charging mode, during which GSM and GPS are disabled. It typically takes 30 – 60 minutes to return to normal operating mode.

Current consumption

The following table gives an overview of functions available at different power levels.

Average current	Description
Up to 30mA at 12v DC	All functions active
Up to 25mA at 25v DC	All functions active
Between 50mA and 200mA	Battery charging mode
0.5mA	In PWDDOWN! Mode
15mA	With MOVEALARM=OFF

Note: the stated current consumption is an average taken over 10 days, the above table is meant as a guide only.

LED flashing codes

The SentinelPoint uses flashes of the LED to indicate the condition of the GSM and GPS modules.

LED	GSM	GPS
1 x green	SentinelPoint is registered and ready to use	GPS position is acquired
2 x green	SentinelPoint is registered and ready to use	GPS position is not acquired
3 x green	SentinelPoint is not registered to the GSM network	GPS position is not acquired
4 x green	SentinelPoint is in charge mode, GSM is disabled	GPS is disabled
Rapid flashing	SentinelPoint is sending or receiving and SMS	

SMS commands

The SentinelPoint is fully configurable by SMS commands. The following table details the commands that can be used, with the command options given in brackets.

SMS command	Description
PARAMETER?	Request for a parameter SMS to be sent. The SMS will detail all the current settings for the SentinelPoint.
STATUS?	Request for a status SMS to be sent. The SMS will detail all the sensor information to let you know how your boat is.
MASTER1= MASTER2= MASTER3=	Command to set the phone number for the device contacts. Enter the phone number after the command or put NA if no number is required.
ALARMS=[ON/OFF]	Command to enable or disable the battery alarm. An alarm SMS will be sent if the external power is removed or running low.
MOVEALARM=[YES/NO]	Command to enable or disable the move alarm. Enabling the alarm will set the current position as home and draw a virtual perimeter of 75m. If the SentinelPoint moves outside this perimeter a MOVE-OUT alert will be sent, when it moves back in a MOVE-IN alert will be sent.
HOME!	Set the current position as home if the move alarm is enabled.
NAME=	Choose the name of the device, maximum 12 characters.
TRACKING=[ON/OFF]	Activate or deactivate the tracking function. If enabled a status SMS will be sent to all master numbers every 60 seconds.
BATT=[12/24]	Command to set the external battery level. The status SMS will record the remaining battery charge in volts.
NEWPWD=	Command to change the password from the default 4444. The new password must be four numerical digits.
PWDOWN!	Command to switch the device off.

You must enter the device password (default 4444) before you can send any commands to the SentinelPoint. Commands should be separated by a comma or by starting a new paragraph, as seen in the set up command example.

Responses from the SentinelPoint use the same terms as the commands, to check the status of a particular function simply look for the relevant command and check the information alongside it. E.g. for remaining battery look for the command BATT= and the number after indicates the remaining voltage.

Set up commands

Follow this example to set up your SentinelPoint. You must enter master and battery information before you can use your device, it is also recommended that you change your device password.

```
4444,  
MASTER1=000000000000,  
BATT=12,  
NEWPWD=0000
```

Voice Call

SentinelPoints manufactured before 2015 also make use of the Voice Call function, this function was removed in later versions to make way for other software updates. Models which still use this function can also be controlled using the following instructions.

Call the contact number of the SentinelPoint and when instructed enter the four digit password using the keypad. Follow the instructions given to change the parameters or check the status of the SentinelPoint.

The Voice Call function will time out and end after 20 seconds of inactivity before the password is entered, or after 60 seconds of inactivity after the password is entered.

Please note that some commands (e.g. changing the name of the device) cannot be done via Voice Call and must be done by SMS.

SentinelPoint App

There is currently an app in development that will allow you to control your SentinelPoint without the need to type an SMS. A sister to the popular Yacht Sentinel app, this should be ready in 2016.

For more information and the date of the product launch please see our website www.yacht-sentinel.com.

Core features

Battery alarm

The SentinelPoint constantly monitors the battery level of your boat or outboard, enabling you to check the remaining charge before you arrive to use the vessel. SentinelPoint will send you an alert if the remaining battery drops below a certain level or the battery lead is disconnected from the SentinelPoint, enabling you to take pro-active steps to remedy this.

The battery alarm is also a security feature if used with an outboard motor, as if you receive an alarm saying the battery lead has been disconnected it could indicate that someone is attempting to steal your outboard. This gives you time to alert the authorities to catch the perpetrator before it's too late.



Geofence mooring alarm

This function enables you to create a virtual perimeter of 75m around the home location of your boat and to receive an alert if it is moved outside this area, and then a second alert when it is moved back in. The main security feature of the SentinelPoint, an unexpected MOVEOUT alarm alerts you to the unauthorised movement of your vessel, giving you the chance to activate the tracking features and alert the authorities.



GPS tracking

Enabling this feature allows you to check the latitude and longitude of your craft by sending a location SMS every 60 seconds. You can use this information to plot where you have been on a map or chart, and you could also use this to track your craft if it is stolen.



Alerts to three people

The SentinelPoint can store up to three different phone numbers to alert in case of emergency. This means that if an alarm is triggered there is a greater chance of someone responding to the situation. It is recommend that if you leave your boat at a marina one of the contact numbers is the marina's duty mobile phone.



Boat status on demand

With one SMS to the SentinelPoint you can find out the status of your boat or outboard. The status message tells you the current GPS coordinates, home GPS coordinates, battery level and whether tracking is enabled. We recommend regularly checking the status of your craft so that you can be sure of its wellbeing.



GPS information

You can check the GPS coordinates of the SentinelPoint by identifying the latitude and longitude listed in the status SMS or in the tracking SMS. You can find the latitude and longitude in a status SMS as in the example below:

SentinelPoint

My SP

FW=20120405

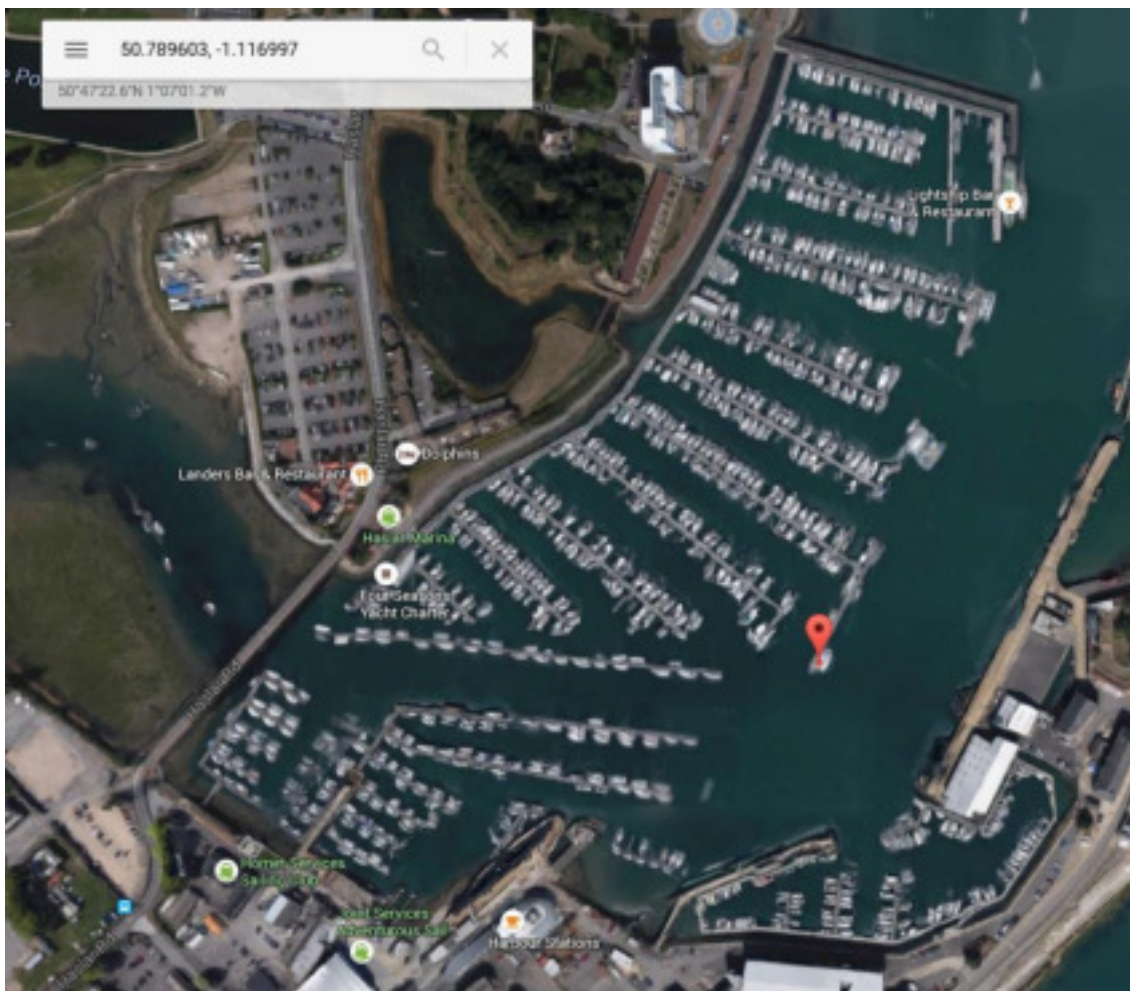
LAT, LONG=50.789603, -1.116997

HOME-POS=50.789603, -1.116997

BATTERY=12.8v

TRACKING=OFF

Take the latitude and longitude information and type them into the chart or map software of your choice, such as in the example below.



When the tracking function is enabled you will be sent regular updates of the latitude and longitude of your device, type these coordinates into a plotter to see the course your vessel has taken and to work out the COG and SOG.

Technical Specification

General

- Casing measures approximately 80mm x 60mm x 30mm
- Determination and transmission of GPS coordinates
- Determination and transmission via GSM data
- Parameter configuration via SMS
- Status indicated by green LED
- Ambient temperature 0 to 50°C
- Storage temperature -10 to 70°C

GSM

- Integrated GSM module Telit GE865
- Suitable for frequencies GSM-850, E-GSM-900, DCS-1800, PCS-1900
- Suitable for use with all providers
- Usable with PAYG or contract SIMs, no SIM lock
- Controllable via 'normal' SMS

GPS

- Integrated GPS module MT3329
- 22 channel GPS receiver
- Internal patch antenna

Power supply

- Single external power supply of 12v – 24v, 600mA
- Internal LiIO back up battery

Legal information

Disclaimer

Use of the SentinelPoint is at the users own risk. Please see the Yacht Sentinel website (www.yacht-sentinel.com) for full terms and conditions.

Warranty

All new goods supplied by an approved vendor have a 12 month warranty period from the date of delivery (unless otherwise stated). This warranty does not affect your statutory rights as a consumer. If new goods develop a defect during the 12 month Warranty period please contact your national distributor who will advise the returns procedure.

The warranty does not cover for from any defects in the goods arising from fair wear and tear, wilful damage, accident, negligence by you or any third party, use otherwise than in accordance with its intended use, failure to follow the manufacturers or suppliers instructions, or any alteration or repair carried out without Intelligent Devices Limited's prior written approval.

Terms and conditions

1. Format of the Contract: Any order placed by you for goods advertised by us on our website is an offer by you to purchase the goods selected in your order. No contract exists between you and us for the sale of any goods until we have received your order and accepted it (which we may do at our discretion). We will send you an order acknowledgement shortly after you place your order, notifying you that we have received your order. This acknowledgement is not notification that we have accepted your order. The contract is subject to your right of cancellation (see clause five).

We have the right to terminate the contract if the price of the contract is not received from you in cleared funds. Intelligent Devices Limited may change these terms of sale without notice to you in relation to future sales.

2. Description and price of the goods: We have taken care to describe and show SentinelPoint products as accurately as possible. If there is anything which you do not understand, or if you wish to obtain further information, please contact us. Every effort is made to ensure that prices shown on yacht-sentinel.com are accurate at the time of placing your order, if, by mistake, we have under-priced an item we will contact you and offer you the following three options:

- a) placing a new order at the correct price for those goods.
- b) cancelling the whole of your order.
- c) cancelling your order for the miss-priced goods and reconfirm your order for the correctly priced goods.

If you do not choose one of those three options within 14 days, your order will be cancelled or the under-priced item will be removed from your order with any payment made by you for the miss-priced goods being credited back with your original payment method.

If within 14 days of accepting your order we discover that all of the goods are unavailable you will have the option of cancelling your order with a full refund or waiting until the items are back in stock. If within 7 days of accepting your order we discover that some but not all of the goods are unavailable, we will contact you and offer you the option of cancelling the whole order or amending your order to a substitute alternative. If you do not choose a substitute alternative within 14 days, the unavailable item will be removed from your order and we will deliver the available goods. If any payment has been made by you, you will be credited back to your original payment method.

The price of an item includes standard 3-5 working day delivery, we reserve the right to charge for next day or named day delivery at the same rate as our preferred courier.

3. Payment: Payment can be made by any of the options described on our website. If payment fails your order will be cancelled. There will be no delivery until cleared funds have been received.

4. Delivery: Delivery will be made to the address specified when you completed your order. If you refuse the delivery of your order for reasons under the Distance Selling Regulations or you fail to take delivery because you have cancelled your contract under the Distance Selling Regulations, Intelligent Devices Limited will refund or re-credit you within 30 days for the sum that has been paid by you for the goods. By exercising your right to cancel you are required to return the goods to Intelligent Devices Limited.

If you fail to return the goods to Intelligent Devices Limited we reserve the right to deduct any costs incurred by retrieving the goods from you. Every effort will be made to deliver the goods as soon as possible after your order has been accepted. Intelligent Devices Limited will now however be liable for any loss or damage suffered by you through reasonable or unavoidable delay. Upon receipt of your order you will be asked to sign for the goods received. If the package does not appear to be in good condition then please refuse the delivery. If you are unable to check the contents of your delivery please sign for the parcel as UNCHECKED. Failure to do so may affect any warranty claims that you make thereafter. Ownership of an item will not pass to you until we have delivered the item to you (either directly, or by leaving in a safe place with a neighbour). When an item has been delivered the risk of damage or loss of the item passes to you.

5. Your right of cancellation: You have the right to cancel your contract with Intelligent Devices Limited at any time up to 10 days after you receive the goods, in line with the Distance Selling Regulations. To cancel your contract in this time frame you must notify us in writing. Should you wish to cancel your contract after the goods have been delivered to you, you will be responsible for returning the goods to Intelligent Devices Limited at your own cost. You will be credited for the goods within 30 days of notifying Intelligent Devices Limited of the cancellation.

6. Refund policy: If you are eligible for a refund, we will refund you back to the payment method you used when you originally paid for your order. Please note that it is your responsibility to notify us of any changes to your card details, i.e. you no longer have that account. Refunds can take up to 30 days to process.

7. Warranty: All new goods supplied by Intelligent Devices Limited have a 12 month warranty period from the date the goods were delivered (unless otherwise stated). This warranty does not affect your statutory rights as a consumer, if new goods develop a defect during that 12 month warranty period please contact us and we will advise of the returns and replacement procedure. Please note that the warranty does not cover you for any defects in the goods arising from fair wear and tear, wilful damage, accident, negligence by you or any third party, use otherwise than in accordance with its intended use,

failure to follow the manufacturer or suppliers instructions, or any alteration or repair carried out without prior written approval from Intelligent Devices Limited.

8. Faulty goods: If you receive goods that are faulty or incomplete on arrival you must notify us within 28 days of receipt of the item. If the goods are less than 28 days old you have the option of a full refund or direct replacement. If the goods are over 28 days old we will test the product for a fault. If the fault is verified we will try to repair the item, if we are unable to repair the item a replacement or full refund will be issued in line with our refund policy. If the goods you have returned are not found faulty by our trained technicians the goods will be returned to you at your cost.

9. Limitation of liability: Intelligent Devices Limited will not be liable to you for any loss or damage in circumstances where: there is no breach of a legal duty owed to you by the Supplier or by its employees or agents; such loss or damage is not a reasonably foreseeable result of any such breach; any increase in loss or damage resulting from breach by you of any term of this contract. Nothing in these conditions excludes or limits the liability of Intelligent Devices Limited for death or personal injury caused by our negligence or fraudulent misrepresentation.

10. Data protection: Intelligent Devices Limited will take all reasonable precautions to keep the details of your order and payment secure, but unless Intelligent Devices Limited is negligent, we will not be liable for unauthorised access to information supplied by you.

11. Images: Product images are for illustrative purposes only and may differ slightly from the actual product.

12. Governing Law and Jurisdiction: These terms of sale and the supply of goods will be subject to English law and the English courts will have jurisdiction in respect of any dispute arising from the contract.

13. Protecting your security: To ensure that your credit, debit or charge card is not being used without your consent, we will validate name, address and other personal information supplied by you during the order process against appropriate third party databases. By accepting these terms and conditions you consent to such checks being made. In performing these checks personal information provided by you may be disclosed to a registered Credit Reference Agency which may keep a record of that information. This is only done to confirm your identity, a credit check is not performed and your credit rating will be unaffected. All information provided by you will be treated securely and strictly in accordance with the Data Protection Act 1988.

Contact us

SentinelPoint is a product of Intelligent Devices Limited (registered in England and Wales, number 03531968). We want to make sure that you are completely happy with your purchase, if you have any questions with respect to our products or services please contact us as follows:

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