Tomorrow's best of breed solutions delivered today

BOAT MONITORING

DATA INPUT, TRANSPORT, BLEND, CONTROLLING AND INFORMATION

BOAT-VITALS – USER GUIDE
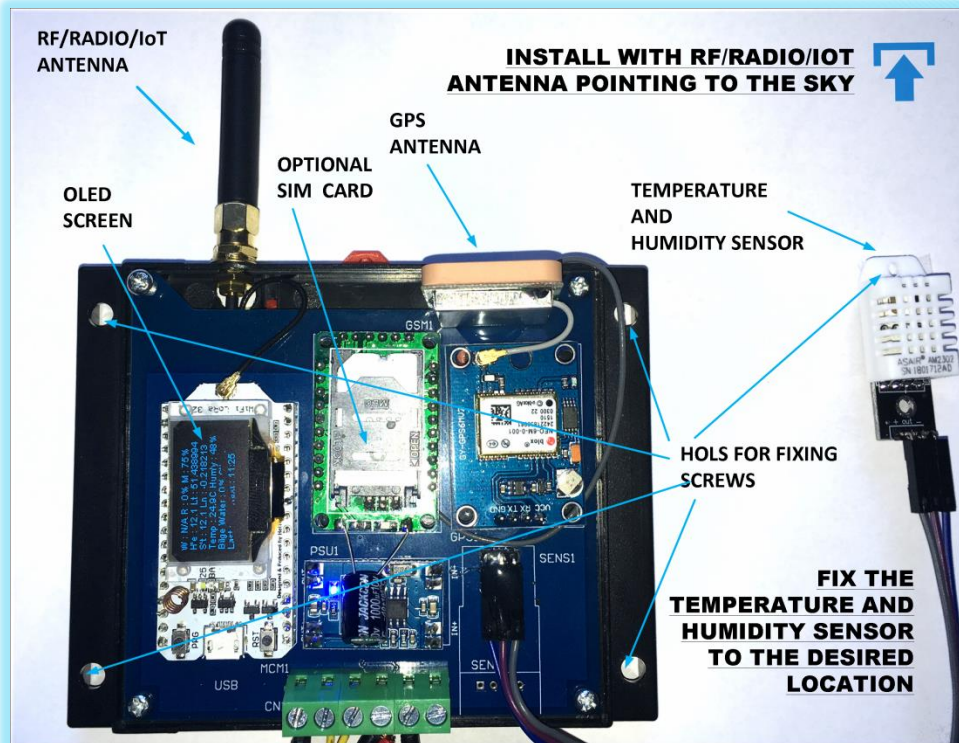
INSTALLATION

RF/RADIO/IoT ANTENNA

INSTALL WITH RF/RADIO/IOT ANTENNA POINTING TO THE SKY

GPS ANTENNA

OPTIONAL SIM CARD

OLED SCREEN

TEMPERATURE AND HUMIDITY SENSOR

HOLS FOR FIXING SCREWS

FIX THE TEMPERATURE AND HUMIDITY SENSOR TO THE DESIRED LOCATION

 Installation of Advance Endpoint is straight forward – simple guide can be found in the picture on this page.

The module can be installed naked behind a wall or with the cover on per customer decision. If installed naked then care should be taken to allow space on around it for heat dissemination.
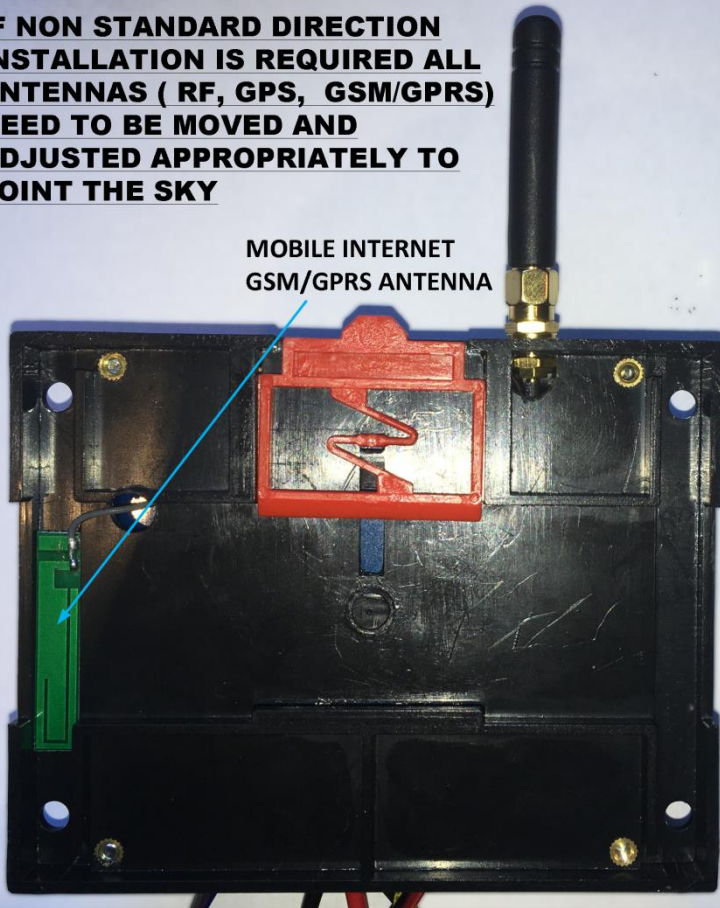
The humidity/temperature sensor is advisable to be located on appropriate place where this measurement are desired to be taken.
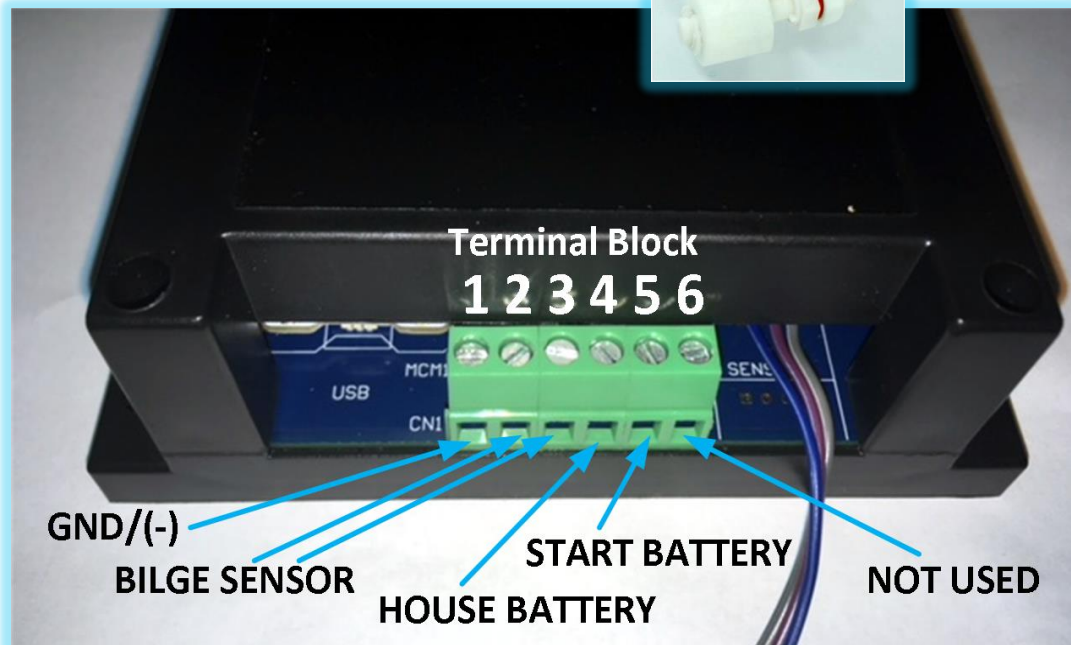
ANTENNA LOCATIONS

In case a non-regular direction of installation is required. All antennas (RF/Radio/IoT, GPS, GSM/GPRS need to be relocated and fixed to point towards the sky.

IF NON STANDARD DIRECTION INSTALLATION IS REQUIRED ALL ANTENNAS (RF, GPS, GSM/GPRS) NEED TO BE MOVED AND ADJUSTED APPROPRIATELY TO POINT THE SKY

MOBILE INTERNET GSM/GPRS ANTENNA

CONNECTING

BILGE SENSOR

Terminal Block
1 2 3 4 5 6

GND/(-)

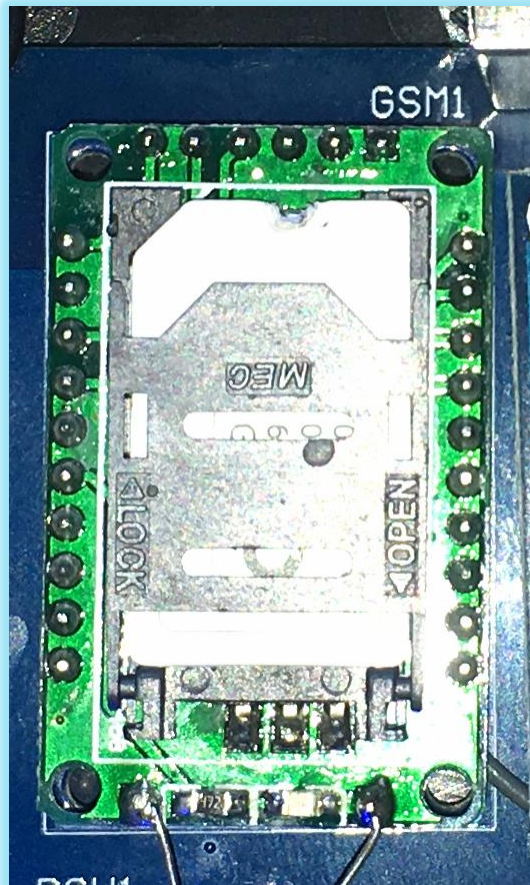BILGE SENSOR

HOUSE BATTERY

START BATTERY

NOT USED

Using a screw driver connect all required cables (*as per the figure on this page*):

1. Ground (-/GND) of Start and House Battery Banks to **Terminal 1**

2. VCC/+ of House Battery to **Terminal 4**

3. VCC/+ of Start Battery to **Terminal 5**

(*optional*)
4. Connect the two cables for bilge water sensor to **Terminal 2** and **Terminal 3** (no polarity)

*IMPORTANT : in case NO bilge sensor is installed **Terminal 2** and **Terminal 3** need to be connected with wire.

* **Terminal 6** is not used (reserved for optional sensor)

COMMUNICATION

The Endpoint can send its data to the server using:

1. RF/Radio/IoT channel in case the marina where the boat is located has joined Boat-Vitals network,

2. Using WiFi from the marina/café/MiFi or shared from a mobile device – configuration need to be done as described in the next page.

3. Using SIM/GSM/GPRS – The customer can add his own SIM card with mobile internet to the device. – configuration need to be done as described in the next page.

*IMPORTANT: The internet traffic generated by the device is exactly 4656 bytes per 24h: which equals to 1.5MB per year. But depending on how the mobile operator calculate the traffic it can be calculated as significantly more. The system does 192 sessions per 24h with average 25 bytes.

CONFIGURATOR

Download and install USB driver for your Endpoint from:
https://www.silabs.com/products/development-tools/software/usb-to-uart-bridge-vcp-drivers

Download and install the Advanced Endpoint configurator from : **http://www.boat-vitals.com/setup.html**

1. Connect the device using USB to micro USB cable.
2. Start Advanced Endpoint configurator
3. Click "Refresh"
4. Click "Connect"
5. Click "Get Configuration"
6. IF all is OK the SSID, PASS, APN, APN USER, APN PASS should be filled with values. - if not check the connection.
7. If WiFi configuration is required set SSID and PASS and click "Send to EndpointAdvance".
8. If Mobile Internet configuration is required set APN, APN USER and APM PASS and click Send to "EndpointAdvance".

*IMPORTANT You can download and install the Bluetooth mobile apps from **http://www.boat-vitals.com/setup.html**