



FLAIK GSM 2.03 - USER MANUAL

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TABLE OF CONTENTS

1	HOW THE SYSTEM WORKS	1
2	THE FLAIK DEVICE.....	2
3	IMPORTANT SAFETY INFORMATION	3
4	IMPORTANT HANDLING INFORMATION	7
5	FCC COMPLIANCE STATEMENT	8

1 HOW THE SYSTEM WORKS

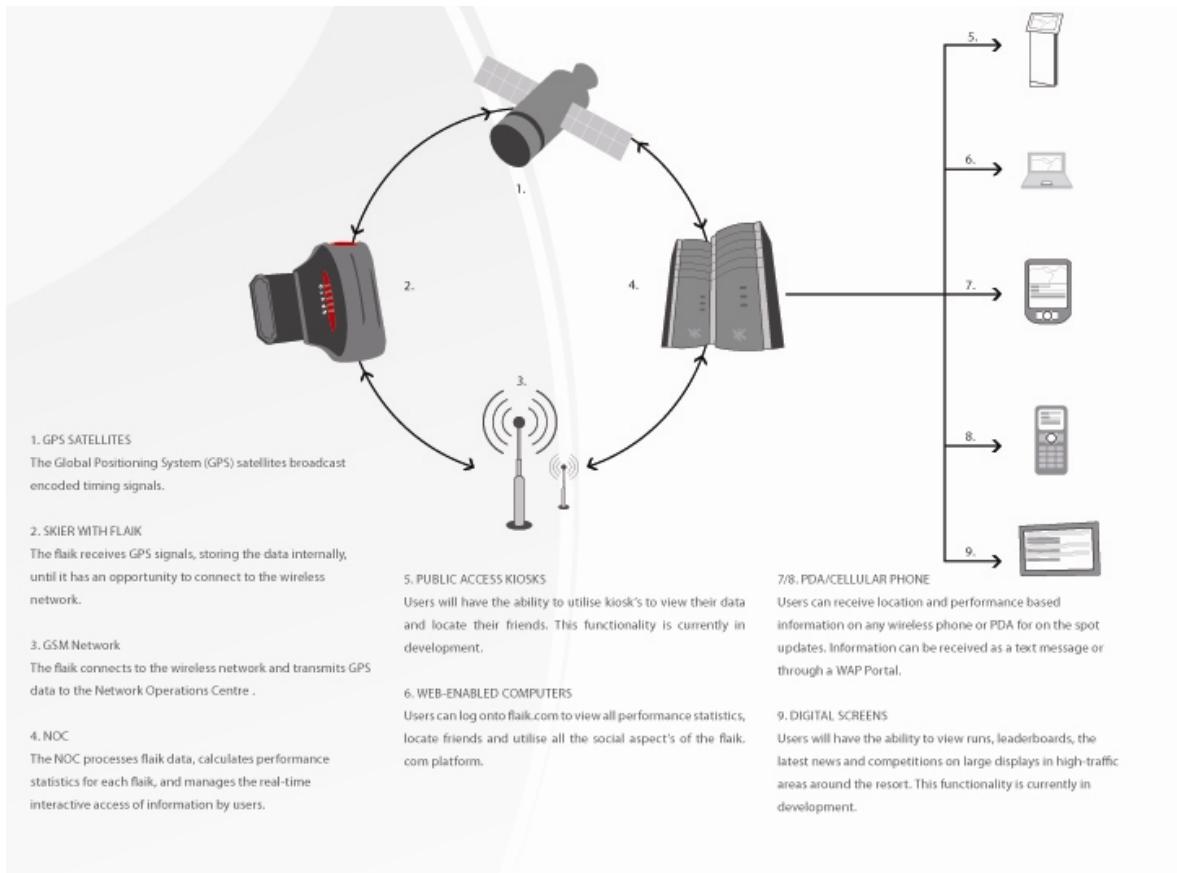


Figure 1: The flaik System

2 THE FLAIK DEVICE

The flaik device is made of three key elements, GPS receiver, data caching unit and GSM cellular transmitter. By recording GPS fixes and having the ability to transmit the GPS fixes over the air via a telecommunication network the flaik tag allows the location of the device to be displayed on the web or mobile to an end user. The flaik tag is water proof, shock proof and temperature tested to -10° F/-20° C.

With a full charge, a flaik tag can operate for 16 hours.

2.1 "TRUECOLOUR" LED

The flaik device is equipped with one 'truecolour' LED. This is used to display different colours/patterns depending on the current state of the tag.

These states include;

- Docked and Charging (Slow Red Pulsing Colour)
- Docked and Charging Complete (Slow Green Pulsing Colour)
- Undocked and Not Recording GPS Data (Slow Blue Pulsing Colour)
- Undocked and Recording GPS Data (Slow White Pulsing Colour)
- Undocked and Low Battery Warning (Quick Red Pulsing Colour)
- Power On Self Test (Quick Yellow Pulsing Colour)
- Power On Self Test Failure (Quick Red Pulsing Colour)

2.2 SPEAKER

The flaik device is equipped with a small speaker. This will sound different tones to represent different events or conditions.

These events/conditions include;

- Device has been docked (Low tone followed by a higher tone)
- Device has been undocked (High tone followed by a lower tone)
- Device has been undocked and has less than six hours of charge (Undocked sound followed by a short break, followed by two consecutive fast low to high transition tones)
- Low Battery Warning (A fast low to high transition tone which sounds once every 5 minutes)

2.3 CHARGING

To charge the flaik device, only use the flaik dock charger. It takes approximately 6 hours to fully charge a flaik device which is completely discharged.

Please Note: The Mean Well GS60A05 power supply is the only authorised power supply to be used in conjunction with the dock charger.

3 IMPORTANT SAFETY INFORMATION

3.1 CHARGING

When using the dock charger, make sure the DC power plug is plugged into the dock charger before you plug it into the power outlet. Do not connect or disconnect the DC power plug with wet hands. Do not use any other DC power plug or power supply other than the Flaik supplied power supply and power plug for use with the dock charger.

Flaik is not responsible for the operation of third-party power supplies or power plugs or their compliance with safety and regulatory standards.

The flaik power supply may become warm during normal use. Always allow adequate ventilation around the flaik power supply and use care when handling. Unplug the DC power plug from the dock charger if any of the following conditions exist:

- The power cord or DC power plug has become frayed or damaged
- The power supply is exposed to rain, liquid, snow or excessive moisture.
- The power supply case has become damaged
- You want to clean the power supply.
- You suspect the power supply needs service or repair

3.2 OPERATING POSITIONS

The flaik device is only to be operated when worn on the upper arm (see Figure 1) or the lower leg (see Figure 3). The flaik device should always be worn in the supplied neoprene armband.



Figure 2 - Position of flaik device when worn on the upper arm



Figure 3 - Position of flaik device when worn on the leg

3.3 EXPOSURE TO RADIO FREQUENCY

The flaik device contains radio transmitters and receivers. When on, the flaik device receives and sends out radio frequency (RF) energy through its antenna. The flaik antenna is located at the front of the flaik device above the LED. The flaik device is designed and

manufactured to comply with limits for exposure to RF energy set by the Federal Communications Commission (FCC). The exposure standard employs a unit of measurement known as the specific absorption rate, or SAR. The SAR limit applicable to the flaik device set by the FCC is 1.6 watts per kilogram (W/kg). Test for SAR are conducted using standard operating positions (i.e., worn on the body, arm or leg) specified by these agencies, with the flaik device transmitting at its highest certified power level in all test frequency bands.

The SAR measurement may exceed the FCC exposure guidelines if the device is not worn in the manner described in section 3.2 (on the arm or the leg). To be sure that the exposure to RF energy does not exceed the FCC guidelines, always wear the flaik device in the provided armband on either the arm or the leg.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment under 47 CFR 2.1093 paragraph (d)(2). End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

The maximum measured Specific Absorption Rate (SAR) level measured for body worn operation was 0.6 W/kg for GSM850 and 1 W/kg for PCS1900.

SPECIFIC ABSORPTION RATE - GSM850 BODY CONFIGURATION 1G

Tissue Volume:	1g
Maximum Level (W/kg):	0.6

SPECIFIC ABSORPTION RATE - PCS1900 BODY CONFIGURATION 1G

Tissue Volume:	1g
Maximum Level (W/kg):	1.0

3.3.1 ADDITIONAL INFORMATION

The FCC and the U.S. Food and Drug Administration (FDA) also maintain a consumer website at www.fda.gov/cellphones to address inquires about the safety of mobile phones. Please check the website periodically for updates.

For more information from the FCC about exposure to RF energy, see:

www.fcc.gov/oet/rfsafety

3.4 RADIO FREQUENCY INTERFERENCE

Nearly every electronic device is subject to radio frequency interference from external sources if shielded or designed inadequately, or otherwise not configured to be compatible. As a result, the flaik device may cause interference with other devices.

4 IMPORTANT HANDLING INFORMATION

Notice: Failure to follow these handling instructions could result in damage to the flaik device or other property.

4.1 CARRYING THE FLAIK DEVICE

The flaik device contains sensitive components. Do not bend, drop, or crush the flaik device.

4.2 ACCEPTABLE TEMPERATURE

Operate the flaik device where the temperature is between -20° and 35° C for optimum battery life. Low or higher temperature conditions might temporarily shorten battery life or cause the flaik device to temporarily stop working properly.

5 FCC COMPLIANCE STATEMENT

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada.

Operation is subject to the following two conditions:

- 1) this device may not cause harmful interference, and
- 2) this device must accept any interference received, including interference that may cause undesired operation.