

# NEOXS



**PARASPORT**  
SKYDIVING



## INTRODUCTION

The **NeoXs** is an audible altimeter designed to be inserted directly in the pouch of a helmet without requiring any option. The small size and smart shape allow a perfect fit in almost every helmet, full face or open face. The intuitive menu interface allows a very easy operation. A wide LCD display allows to set up and use the unit within a few minutes with little use of the manual. We're sure you will enjoy all the features of the **NeoXs**, and we invite you to read the information contained in this manual.

The **NeoXs** doesn't need to be turned on and off, but when a new NeoXs is shipped the battery is installed, but the unit is inactive. To activate the unit, just click a button and normal operation will start. This will also happen every time the battery is replaced. It is also good habit to check the unit functionality and settings before loading the aircraft by clicking a button.

## BUTTONS

Three buttons controls the **NeoXs** functions. When the unit is in power saving mode (the LCD is blank) you just need to touch a button to wake the unit up. For safety, the buttons are generally locked (in this case the lock icon is shown on the LCD) and can be easily unlocked by pushing and releasing the SELECT button few times in sequence. This is designed to avoid accidental activation of the buttons when used into a helmet.

Buttons actions are consistent thru the different functions: the SELECT button normally selects or confirms, while the UP and DOWN buttons change values, program or reset functions. Buttons can have different actions if clicked (normal push and release), or held down (hold depressed until the unit acknowledges). Special actions are explained throughout this manual. After 30 seconds without touching the buttons the unit locks them and returns to power saving mode.

## MAIN DISPLAY

As you wake up the instrument, the freefall altitude alarms will be displayed (you can select the unit of measure metric or feet, see below). The countdown timer value is also displayed.

After take off, the unit will automatically switch to inflight mode, showing the current altitude in real time. When swoop alarms are active, the indicator SWOOP will show, and if the PRO SWOOP mode is active, a P will also show (see "Program swoop alarms"). While climbing the NeoXs will go off at preset altitude of 1000 feet (300 meters), and at the current "breakoff" and "pull" altitudes set.

While flying to altitude you have access to all the functions, so you can change for example profile or warning altitudes.



Ground mode



Inflight mode

## ALARMS

The **NeoXs** offers up to 7 distinct alarms that are easy to recognize, categorized as follows:

**Freefall alarms:** prepare to breakoff altitude, prepare to deploy altitude, danger altitude, countdown timer.

**Canopy alarms:** up to three altitudes can be set for alarms to go off under the open canopy. These warnings can be disabled at once in their own programming function.

First freefall alarm will go off anyway, the other freefall alarms and the countdown timer only if in freefall. A freefall alarm can be disabled setting it at the same value of another alarm. The countdown timer can be disabled by setting it to zero.

Freefall alarms can be set with 100 feet (25 meters) increments between 1000 and 9000 feet (300 and 3000 meters).

Canopy alarms can be set with 10 feet (5 meters) increments between 100 and 6000 feet (30 and 2000 meters).

Countdown timer can be disabled setting its value to 0, or setting it to any value between 5 and 90 seconds. If set, the timer will go off signalling the last 5 seconds of the time set. For example, if your set it to 35 seconds, it will go off for 5 seconds starting 30 seconds from the exit.

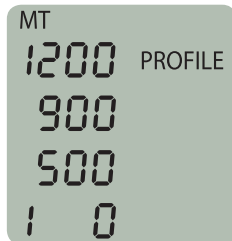
## MAIN MENU

The main menu is the way to select functions. After unlocking the buttons (see Buttons section at the beginning of this manual), click SELECT to show the menu (you can make it disappear by pressing and holding the SELECT button again). When the menu shows, click the buttons UP or DOWN to browse the menu items (the selected item will blink), and click SELECT to select the function. Functions available are:

- **PROFILE:** to select and program the preset alarms
- **SWOOP:** to program the altitude alarms to go off under the open canopy
- **ALARM:** to modify the current alarms without modifying the presets
- **CONFIG:** to set unit parameters

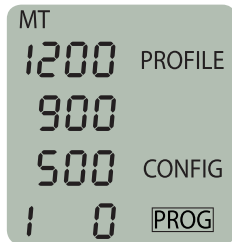
## PROFILES

The unit has four customizable user profiles for different uses (formation skydiving, freely, tandem, AFF and so on). Altitude alarms stored in a profile can be easily selected and activated, also while climbing to altitude. Select PROFILE from the main menu, and then scroll the profiles by clicking the buttons UP or DOWN. You can select the profile shown by clicking the SELECT button (returning to normal display mode), or changing its alarm values by pressing and holding the UP button (entering profile programming mode).



## PROGRAMMING PROFILES

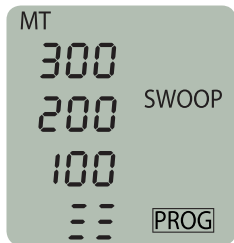
This function programs the three freefall altitude alarms and the countdown timer for a specific profile. Change the values by clicking the buttons UP or DOWN, save the value and proceed to the next by clicking the SELECT button. Save the profile changes and return to profile mode by pressing and holding the SELECT button. If you don't touch the buttons for 30 seconds the unit will leave the programming mode without saving the changes.



## PROGRAMMING CANOPY ALARMS

You can set up to three alarms for canopy warning altitudes. From the main menu select the SWOOP function. The unit will go into swoop programming mode with the first altitude warning blinking. Change the value by clicking the buttons UP or DOWN, and save it by clicking the SELECT button: this will also move to the next number. Last number is the volume level, select one of the three regular or PRO SWOOP volumes available or set to off (OFF) to disable the swoop signals. Once the preferred altitudes have been set, press and hold the SELECT button to save the changes and return to the main display.

Swoop has two modes, each of them has three volume levels. While the regular mode has three separate signals going off at the preset altitudes, the PRO SWOOP mode has signals that become more frequent the more you get closer to the ground, until becoming a flat signal when you reach lowest swoop altitude you set. This will help you in following more accurately your flight path to the landing area. When the PRO SWOOP mode is set, a P will also appear on the lower left of the display, together with the SWOOP indication.



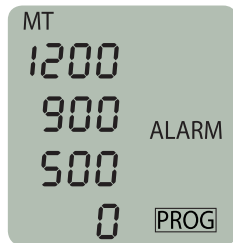
8



**WARNING!** *Even the most perfect instrument may fail for whatever reason. When performing low altitude manoeuvres never forget to judge your altitude by sight! And don't forget to always set up a backup plan for a safe landing.*

## PROGRAMMING ALARMS

Current alarms set can be programmed directly without passing through the profiles, for example to temporarily increase a freefall alarm. Select the ALARM function from the main menu and program the current alarms using the buttons as described in the profiles programming.

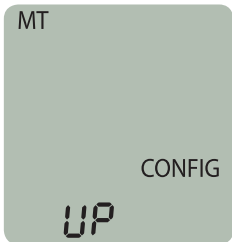


9

## CONFIGURATION

### *Measurement units*

Units can be switched between meters and feet at any time. Get to the configuration screen and click the UP button to switch between the measurement units.



### *Ground set (available in inflight mode only)*

The **NeoXs** is able to follow the pressure changes while on the ground, in order to correct the ground reference. In some situations (like driving to the drop zone up and down hills) it may be necessary to manually reset the unit to set the new ground reference. In this case, select the CONFIG function from the main menu, and when the GND indicator shows click the UP button to reset the ground reference.



### *Volume set*

Each alarm is recognizable by a unique and loud audible signal. It is possible to increase or decrease the volume level of freefall alarms in the CONFIG function, clicking SELECT button until the display shows VOL. At this point clicking the buttons UP or DOWN will increase or decrease the volume. Clicking the SELECT button will save the volume set and move to the next item. Note that canopy alarms volume is adjusted in the canopy alarms programming function.



### *Sound test*

You can make a sound test selecting the CONFIG function, clicking the SELECT button until SND shows on the LCD. You can start the sound test by clicking the button UP. You can interrupt it by clicking any button.



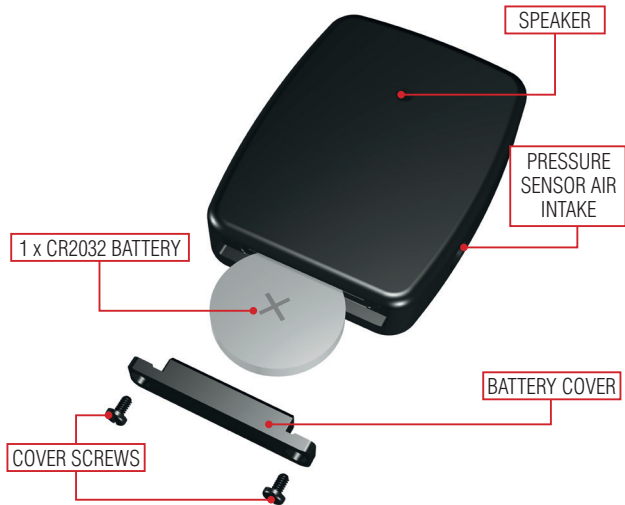
## INSTALLING THE BATTERY

A new **NeoXs** is shipped with the battery installed, but it is inactive. To activate the unit, just click a button and normal operation will start. This will happen every time the battery is replaced.

Expected battery life is about 2 years, but it depends on the number of jumps and time spent not in stand-by mode. If you're planning not to use the unit for some time (like during Wintertime, for example) we suggest to remove the battery to save battery life. Replace the battery when the low-battery indicator turns on (please note that extreme cold weather may falsely activate this indicator!). If the low-battery signal turns on at temperatures above 50°F (10°C) the battery needs immediate replacement.

To install or replace the battery follow these steps:

1. Remove the battery compartment cover by untightening the two screws. Be careful not to lose the gasket in the battery compartment and the cover.
2. Discard the old battery, if present: hold a button depressed few seconds to be sure the unit is totally discharged. Install the new battery following the drawing, checking you're following the correct polarity.
3. Close the battery compartment cover tightening the two screws, assuring that the gasket is correctly in place.



*Battery installation should be made with extra care. The operator is responsible for installing the battery properly behind the battery compartment cover. Correct placement of the gasket guarantees water resistance of the unit. All of the information stored in the **NeoXs** is kept in memory when replacing the battery.*

*Remember to activate the unit by clicking a button after replacing the battery!*

## WATER RESISTANCE

The **NeoXs** provides water protection when swooping into ponds or in case of an unintentional water jump. If the unit gets wet, wipe it with a clean tissue, remove the battery, put it in a dry place away from sunlight, and let all parts dry out before using it again.

## UNIT CARE

Operate on the unit only as described in this manual. Do not try to perform any other service to the **NeoXs** or attempt to open the case. Protect your unit from shocks, extreme heat and cold, and prolonged exposure to direct sunlight. If not in use, your **NeoXs** should be stored in a clean, dry environment at room temperature. The **NeoXs** can be cleaned with a clean cloth lightly moistened with warm water, do not use soap or detergents. Do not attempt to take the **NeoXs** apart or service it by yourself.

## TECHNICAL SPECIFICATIONS

- Microprocessor based audible altimeter
- Wide size LCD
- Intuitive user interface
- Real time altitude indicator
- Up to three separate freefall altitude warnings
- Freefall warning altitude set with 100 feet (25 meters) increments
- First freefall altitude warning goes off at any speed, the others only in freefall
- Up to three separate canopy altitude warnings
- Canopy altitude warning set with 10 feet (5 meters) increments
- Powerful audible signals, distinct and easily recognizable
- Countdown timer
- Four customizable user profiles
- PRO SWOOP signals
- Self-calibration (manual reset allowed), self-test, no power-on, ultra-low power consumption
- Easily programmable on the ground or while climbing to altitude
- Batteries: 1 x CR2032
- Size: 51 x 39 x 10 mm



## **WARRANTY AND LIMITS OF LIABILITY**

If this product should fail due to defects in manufacturing, Parasport Italia will repair or replace the units or parts of it free of charge for three (3) years from the date of purchase. This warranty applies to the original purchaser and covers only failures due to defects in materials and workmanship that may occur during normal operations while in the period of the warranty. It doesn't cover damage or failures resulting in accident, misuse, neglect, mishandling, alteration, or modifications of the product, or any failure caused by operation of the product outside the scope of its specifications or any cause not covered by this warranty.

## **WARNING!**

*This product has been designed for skydiving and is not approved by the manufacturer for any other activity. Skydiving is a dangerous sport where unavoidable risks may result in serious bodily injury or death, personal and of third parties, even when properly using well made products. By using this product the User accepts full responsibility and implies knowledge that he/she is subject to injuries, losses or death that may occur through proper or improper use of this product, good or defective. By using this product, user waives any liability of Parasport Italia and its dealers for personal injuries or other damages arising from such use.*

## INDEX

Introduction	3
Main display	4
Alarms	5
Main menu	6
Profiles	7
Programming profiles	7
Programming canopy alarms	8
Programming alarms	9
Configuration	10
Measurement units	10
Ground set	10
Volume set	11
Sound test	12
Installing the battery	12 - 13
Water resistance	14
Unit care	14
Technical specification	15
Warranty and limits of liability	16



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