

The logo for UWATEC features a white, stylized wave-like graphic above the word "UWATEC" in a bold, white, sans-serif font.

Galileo
terra

SAFETY CONSIDERATIONS

You must carefully read and understand this entire manual before using your Galileo. Diving has many inherent risks. Even if you follow the instructions of this manual in a careful manner, it is still possible that you may be seriously injured or die from decompression sickness, oxygen toxicity or some other inherent risk of scuba diving with Nitrox or compressed air. Unless you are fully aware of these risks and are willing to personally accept and assume responsibility for those risks, do not use Galileo.

Guidelines for the use of Galileo:

The following guidelines for using Galileo are derived from the latest medical research and the recommendations of the American Academy of Underwater Sciences for diving with diving computers.

Following these guidelines will greatly increase your safety while diving, but cannot guarantee that decompression sickness or oxygen toxicity will not occur.

- Galileo is designed for dives with compressed air (21%O₂) and Nitrox (22 to 100% O₂) only. Do not use Galileo for dives made with other mixed gases.
- It is absolutely necessary to check the set mixture before each dive and to compare it to the gas mixture currently used. Always remember: setting an incorrect mixture carries an inherent risk of decompression sickness and/or oxygen toxicity! Maximum deviation from the measured mixture must not exceed 1% O₂. An incorrect gas mixture can be lethal!
- Only use Galileo with open circuit breathing systems.
- Only use Galileo for diving with an independent breathing apparatus. Galileo is not designed for long term exposures with Nitrox.
- Always observe the visual and audible alarm signals. Avoid situations of increased risk which are marked with a warning sign in this operating manual.
- Galileo has a ppO₂ warning. The default limit is set at 1.4bar ppO₂max. It can be changed between 1.2 and 1.6bar.
- Frequently check the "oxygen clock" (CNS O₂). Ascend and finish the dive if the CNS O₂ exceeds 75%.
- Never dive deeper than the Maximum Operating Depth (MOD) pertinent to the gas mixture in use.
- Always check the diving limits considering the oxygen content and standard sports diving procedures (decompression sickness, oxygen toxicity).
- In accordance with the recommended maximum diving limit of all instructional agencies, do not dive deeper than 40m/130ft.
- The danger of nitrogen narcosis has to be taken into consideration. Galileo gives no warning about this.
- On all dives, with or without dive computer, make a safety stop for at least 3 minutes at 5m/15ft.
- All divers using dive computers to plan dives and indicate or determine decompression status must use their own computer, which they take with them on all dives.
- If Galileo fails at any time during the dive, the dive must be terminated, and appropriate surfacing procedures (including a slow ascent and a 3 to 5 minute safety stop at 5m/15ft) should be initiated immediately.
- Comply with the ascent rate and carry out any decompression stop required. If the computer should fail for any reason, you must ascend at a rate of 10m/30ft per minute or less.
- On any given dive, both divers in a buddy pair must follow the most conservative dive computer for that particular dive.
- Never dive without a buddy. Galileo does not substitute for a dive buddy.

- Only make dives that are appropriate to your level of dive training. Galileo does not increase your knowledge of diving.
- Always dive with back-up instruments. Make sure that you always use back-up instrumentation including a depth gauge, submersible pressure gauge, digital bottom timer or dive watch, and have access to decompression tables whenever diving with a dive computer.
- Avoid repeated ascents and descents (yo yo diving).
- Avoid repeated heavy workload while at depth.
- Plan the dives to be shorter if they are made in cold water.
- After finishing the decompression or at the end of a no-stop dive, the final stage of the ascent should be as slow as possible.
- You **MUST** be familiar with all signs and symptoms of decompression sickness before using Galileo! Seek **IMMEDIATE** treatment for decompression sickness should any of these signs or symptoms occur after a dive! There is a direct correlation between the effectiveness of treatment and the delay between the onset of symptoms and the treatment for decompression sickness.
- Only dive with Nitrox after you have been thoroughly instructed by a recognised institution.

Repetitive dives

- Do not start your next dive before your CNS O₂% status has dropped below 40%.
- When diving with Nitrox, make sure your surface interval is long enough (just like diving with compressed air). Plan for a minimum surface interval of two hours. Oxygen, too, needs sufficient time to leave the body.
- Match gas mixture to the intended dive.
- Do not attempt a repetitive dive if the no-dive warning  is visible on the display.
- Plan a day without diving once a week.
- If you have to change computers, wait at least 48 hours before carrying out your next dive.
- Diving after a reset of the remaining saturation may lead you into potentially hazardous situations which could result in death or serious injury. After a reset of the remaining saturation do not dive for at least 48 hours.

Altitude and diving

- Do not dive at altitudes higher than 4000m/13000ft.
- After a dive do not rise to altitudes that Galileo prohibits via the altitude range indicator.

Flying after diving

- After diving, wait at least 24 hours prior to flying.

Galileo dive instrument is a personal protective equipment in compliance with the essential safety requirements of the European Union directive 89/686/EEC. RINA SpA, Via Corsica 12, I-16128 Genoa, notified body no. 0474, have certified the conformity with the European Standard EN 13319:2000.

EN13319:2000 Diving accessories - Depth gauges and combined depth and time measuring devices - Functional and safety requirements, test methods. Any information on decompression obligation displayed by equipment covered by this standard is explicitly excluded from its scope.

Welcome to UWATEC dive computers and thank you for purchasing Galileo. You are now the owner of an extraordinary partner for your dives. This manual provides you easy access to UWATEC state of the art technology and Galileo's key features and functions. Should you wish to know more about SCUBAPRO UWATEC diving equipment, please visit our website www.scubapro-uwatec.com.



WARNING

- Galileo has a depth rating of 330m/1084ft in GAUGE mode only.
- As a decompression computer Galileo functions to a depth of 120m/394ft only.
- At depths between 115m/377ft and 120m/394ft in computer mode the message SWITCHING TO GAUGE appears on the display and at depths over 120m/394ft Galileo will automatically switch to GAUGE mode and cannot be used as decompression computer for the remainder of the dive.
- Diving at oxygen partial pressures higher than 1.6bar (corresponding to a depth of 67m/220ft when breathing compressed air) is extremely dangerous and could lead to serious injury or death.

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1. INTRODUCTION TO GALILEO

Galileo is diving technology made easy. It is an intuitive tool which monitors all aspects of the dive to provide you with accurate information relative to your individual experience. Galileo offers an array of features to enhance your diving pleasure.

Your Galileo User Manual is divided into five main chapters.

Chapter 1: **Introduction to Galileo.** This chapter provides an overview of the Galileo computer and describes its operating modes and functions when on the surface.

Chapter 2: **Menus, settings and functions.** This chapter describes every aspect of the computer as it relates to its use, functions and features. It describes all parameters you can adjust directly on the dive computer.

Chapter 3: **Diving with Galileo.** This chapter takes you underwater with your new computer. It's about everything Galileo can and will do to enhance your safety and fun underwater.

Chapter 4: **Galileo and SmartTRAK (PC interface).** This chapter is about personalization and customization. It describes how to change settings, to download and manage your logbook, to upload pictures and to upgrade or update the firmware on your new computer.

Chapter 5: **Taking care of Galileo.** This chapter illustrates how to take care of your new dive computer.

It is time to dive into the details now. We hope you will enjoy getting to know your new computer and we wish you many happy dives with Galileo.

1.1 Glossary

AVG	Average depth, calculated from the beginning of the dive or, in case of gauge mode, from the time of reset.
CNS O₂	Central Nervous System oxygen toxicity.
DESAT	Desaturation time. The time needed for the body to completely eliminate any nitrogen taken up during diving.
Dive time	The whole time spent below a depth of 0.8m/3ft.
IrDA	Infrared Data Association, refers to the communication protocol between dive computer and PC.
Max depth	Maximum depth attained during the dive.
MB	Microbubble. Microbubbles are tiny bubbles that can build up in a diver's body during and after a dive.
MB level	One of the six steps, or levels, in UWATEC's customizable algorithm.
MOD	Maximum Operating Depth. This is the depth at which the partial pressure of oxygen (ppO ₂) reaches the maximum allowed level (ppO ₂ max). Diving deeper than the MOD will expose the diver to unsafe ppO ₂ levels.
Nitrox	A breathing mix made of oxygen and nitrogen, with the oxygen concentration being 22% or higher. In this manual, air is considered as a particular type of Nitrox.
NO FLY	Minimum amount of time the diver should wait before taking a plane.
No-stop time	This is the time that you can stay at the current depth and still make a direct ascent to the surface without having to perform decompression stops.
O₂	Oxygen.
O₂%	Oxygen concentration used by the computer in all calculations.
ppO₂	Partial pressure of oxygen. This is the pressure of the oxygen in the breathing mix. It is a function of depth and oxygen concentration. A ppO ₂ higher than 1.6bar is considered dangerous.
ppO₂max	The maximum allowed value for ppO ₂ . Together with the oxygen concentration it defines the MOD.
Press	The act of pressing and releasing one of the buttons.
Press and hold	The act of pressing and holding one of the buttons for 1 second before releasing it.
SOS mode	The result of having completed a dive without respecting all mandatory decompression obligations.
Stopwatch	A stopwatch, for example to time certain legs of the dive.
SURF INT	Surface interval, the time from the moment the dive is closed.
TAT	Total ascent time, the time it takes to perform the ascent from your current depth to the surface in a decompression dive, including all decompression stops and assuming the ideal ascent rate.
UTC	Universal Time Coordinated, refers to time zone changes when traveling.

1.2 Operating modes

The functions of the Galileo computer can be grouped into three categories, each corresponding to a specific mode of operation:

- **surface** mode: the computer is on the surface. In this mode you can change settings, review your logbook, use the dive planner, see remaining desaturation after a dive, download to PC and much more;
- **dive** mode: the computer is at a depth of 0.8m/3ft or more. In this mode, Galileo monitors depth, time, temperature and performs all decompression calculations;
- **sleep** mode: the computer is on the surface after 3 minutes without operation. Though the computer appears to be turned off completely, it is still active. Galileo checks the ambient pressure once every 60 seconds for uninterrupted monitoring of the environment.

1.3 Turning on Galileo and time of day display

To start the computer, **press and hold** the right button. The screen will briefly show the Galileo logo and then switch to the **time of day** display. If you **press** the right button, you will skip the start-up picture and go straight to the **time of day** display. Think of this as the home page of your new dive computer. This is where it all starts.

The type of information displayed in surface mode is different depending on whether Galileo has remaining saturation from a recent dive or is completely desaturated. In case of no remaining saturation, the display looks as depicted below. The buttons are marked, from left to right, with **MENU**, **LOG** and **LIGHT**. The top of the display shows as default the Galileo logo, which can be replaced by the first two lines of the owner information data (refer to section 2.9.5 on owner information). The time of day is shown in the middle of the display. Underneath it, Galileo displays various information: on the top

row the date, the current temperature, the altitude class (in form of a stylized mountain, see section 3.6) and the battery capacity; on the lower row, the set oxygen concentration, the corresponding MOD, the set ppO_2max and the active MB level setting (see section 2.3.1).



If the computer has remaining desaturation from a recent dive, the upper portion of the screen is replaced with the following information: desaturation time, no-fly time, surface interval and CNS O_2 (if applicable).



The **remaining desaturation time (DESAT)** is calculated by the decompression model in the computer. Any dive started while there is remaining desaturation on your computer is considered a repetitive dive, meaning that Galileo accounts for the pre-existing nitrogen load in your body.

The **no-fly time (NO FLY)** is the time during which an exposure to the reduced pressure

inside the cabin of an airplane could cause decompression sickness, as calculated by the decompression model in the computer.

⚠ WARNING

Flying while Galileo displays NO FLY can result in serious injury or death.

The **surface interval (SURF INT)** is displayed from the moment the dive is closed (5 minutes after surfacing), for as long as there is remaining desaturation on the computer.

In addition, the bar graphs at the sides of the screen show the CNS O₂ (left bar) and the residual nitrogen loading (right bar). Depending on the amount of residual nitrogen, Galileo shows the prohibited altitude classes via grey lines inside the stylized mountain (see section 3.6 for more information).

1.4 Altitude alarm after a dive

Going to altitude is in a way similar to starting an ascent from a dive: you expose your body to a lower partial pressure of nitrogen and consequently you start offgassing. After a dive, given the higher nitrogen loading in your body, even reaching an otherwise negligible altitude can potentially cause decompression sickness. Consequently, when in surface or sleep mode, Galileo constantly monitors the ambient pressure and uses it to evaluate your nitrogen loading and offgassing. If Galileo notices a drop in ambient pressure not compatible with your current nitrogen loading, it will activate the alarm to alert you of the potentially dangerous situation.



1.5 No-dive warning after a dive

If Galileo detects a situation of increased risk (due to the potential of microbubble accumulation from previous dives or a CNS O₂ level above 40%), the symbol will appear on the display together with a suggested surface interval. This minimum surface interval is what Galileo predicts being necessary to reduce the number of microbubbles and/or to reduce the CNS O₂ level below 40%.



You should not undertake a dive as long as the no-dive warning is displayed on the computer screen. If the warning is prompted by microbubble accumulation (as opposed to CNS O₂ over 40%) and you dive anyway, you will have shorter no-stop times or longer decompression times. Moreover, the duration of the microbubble warning at the end of the dive can increase considerably.

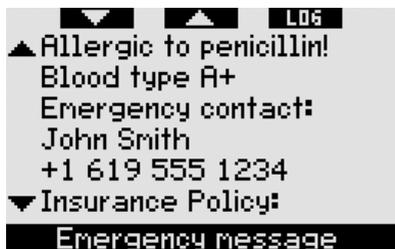
1.6 SOS

If you stay above a depth of 0.8m/3ft for more than 3 minutes without observing a prescribed decompression stop, the computer will switch into **SOS** mode. Once in **SOS** mode the computer will lock up and will be inoperable as a dive computer for 24 hours. If Galileo is used for diving within the 24 hours of an **SOS** lock, it will automatically switch to gauge mode and provide no decompression information.

⚠ WARNING

- Violating a mandatory decompression obligation may result in serious injury or death.
- Serious injury or death may result if a diver does not seek immediate treatment should any signs or symptoms of decompression sickness occur after a dive.
- Do not dive to treat symptoms of decompression sickness.
- Do not dive when the computer is in **SOS mode**.

The display shows the same information as in presence of desaturation, but in addition the message **SOS MODE** appears to the right of the time of day. Instead of the notify time, the 24 hour countdown is shown. The middle button description changes from **LOG** to **SOS**, and by **pressing** it an emergency message is displayed (see section 2.9.6). The information for this display must be entered using SmartTRAK and it can be up to 20 lines long, scrollable with the left and middle buttons. Once the emergency message is displayed, **pressing** the right button (**LOG**) shows the details of the last dive.



1.7 Replaceable battery

Galileo uses a CR12600SE type battery (also known as CR2NP) which is user replaceable and is available from your SCUBAPRO UWATEC dealer. The display alerts you of the status of the battery. This is described with up to six elements inside the battery symbol:

- as long as four or more elements are lit, the battery has enough energy for safe diving;
- with three elements showing, the displays alternates between the regular information and the message **LOW BATTERY** next to the battery symbol in ten-second intervals. The battery has enough energy for safe diving but you should consider replacing it;
- if only two elements are lit, the display shows **REPLACE BATTERY** permanently. The battery does not have enough energy to ensure a safe dive. With only two elements lit, all audible alarms and the backlight are deactivated and the compass cannot be activated;
- if only one element is lit, the computer is not functional and the display shows the message **BATTERY EMPTY**.





⚠ WARNING

Starting a dive when the **REPLACE BATTERY** message is displayed can cause the computer to fail during the dive. Replace the battery as soon as you notice this message.

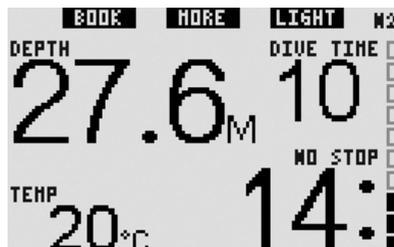
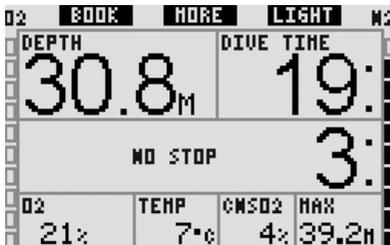
Low battery situations during a dive are described in section 3.2.5.

See Chapter 5 for information on how to replace the battery.

1.8 Screen configuration options (patent pending)

In dive mode, Galileo displays data in one of three pre-configured screen lay-outs: **CLASSIC**, **LIGHT** or **FULL**.

- The **CLASSIC** configuration is set as default and shows all standard information needed during the dive; this lay-out can be chosen with or without a grid separating the various fields;
- the **LIGHT** configuration maximizes the size of the displayed data by focusing on only the absolutely necessary information;
- the **FULL** configuration maximizes the amount of information displayed.



Galileo also has a gauge mode, with a corresponding **GAUGE** configuration, in which the computer acts as a digital depth gauge and does not perform any decompression calculation.



For all three configurations and in gauge mode it is possible to call up the digital compass at any time during the dive. It is also possible to rotate the entire screen by 180 degrees, so that the computer can be worn with the buttons on the top or on the bottom.



	Left button (MENU)	Middle button (LOG)	Right button (LIGHT)
Press	Main menu	Logbook	Activate backlight
Press and hold	Oxygen setting	Picture viewing function	Digital compass

1.9 Button operation

Galileo has three buttons. These buttons allow to access menus and change settings while in surface mode. During the dive they set bookmarks, allow to display further information on the computer screen and to activate the backlight. Each button can perform two tasks, depending on whether it is **pressed** or **pressed and held** (see definition in glossary in section 1.1).

The abbreviated description on the display under each button refers to its function when **pressed**. The function performed by **pressing and holding** each button is described only in the manual.

1.10 Button functions on the surface

Pressing the **MENU** button gives access to the list of menus. **Pressing and holding** the **MENU** button jumps straight to the oxygen setting menu.

Pressing the **LOG** button jumps straight to the logbook menu. **Pressing and holding** the **LOG** button brings up the picture viewing function.

Pressing the **LIGHT** button activates the backlight. **Pressing and holding** the **LIGHT** button accesses the digital compass.

1.11 Turning off Galileo

Galileo turns off automatically after 3 minutes without operation. When in **time of day** display, it can also be turned off manually by **pressing and holding** the left and right buttons simultaneously.

2. MENUS, SETTINGS AND FUNCTIONS

Galileo's menus allow you to access functions or to change settings. To access the main menu **press MENU**. From here, you can scroll through the entire list by **pressing** the "▼" (left button) or "▲" (middle button). Some menus, such as **Dive settings**, have submenus. In every menu or submenu, the highlighted section indicates the currently active entity. Listed below are all available menus.

Menu	Description	Page
O ₂ setting	Allows to set the oxygen concentration (Nitrox), the ppO ₂ max and to view the MOD.	14
Dive settings	Allows to set all dive-related parameters: MB level, gauge mode, safety stop timer, ppO ₂ max, Nitrox reset time, water type. It also allows to reset the desaturation and to turn on the all-silent mode.	15
Digital compass	Allows to use the compass on the surface, to set the auto-off time and also to set a declination value to correct between magnetic North and true North.	18
Altimeter	Shows altitude and allows to set altitude with respect to a known reference.	19
Warning settings	Allows to turn on or off the warning messages individually.	19
Clock settings	Allows to set the wake-up alarm, time, time format, date and time zone (UTC).	27
Other settings	Allows to set the parameters for the duration of the backlight time, to change the contrast of the display, to change the IrDA speed, to toggle the water contacts on and off, and to reset all settings from all menus to the factory defaults. It also shows information about the software and hardware of the dive computer.	28
Personalization	Allows to set the screen configuration, the language, the start-up picture, the unit system, to show the owner information and the emergency message.	30
Pictures	Allows to display all the pictures stored on the dive computer. The pictures must be uploaded from a PC via SmartTRAK.	31
Dive planner	Allows to plan no-stop or decompression dives with freely selectable surface intervals.	31
Logbook	Allows to review your past dives.	32

2.1 Main menu description

Press **MENU** to view the list of menus.

To enter any menu, scroll up or down the list via the “▲” or “▼” buttons until the highlighted bar covers your menu of interest, then **press ENTR** to confirm your choice.



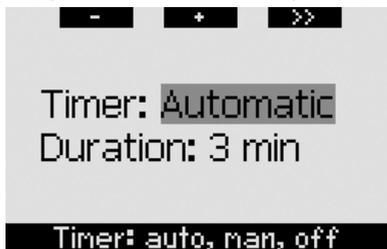
To change settings **press** the + or - buttons, then **press SAVE** to confirm the changes. This will take you back to the main menu. If you do not want to confirm the changes, **press and hold** the right button at any time to exit without saving the changes. This will also take you back to the main menu. **Press and hold** the left and the right button simultaneously to jump back to the **time of day** display. Note that holding down the + or - buttons makes the setting change faster.



If you make a change in any menu and you save it, the computer will display the message **CHANGES SAVED** for 2 seconds. If you make a change and do not save it, the computer will display the message **CHANGES NOT SAVED** for 2 seconds. If no changes were made, whether you exit by means of a **press** or a **press and hold**, no message is displayed.



If more than one entity can be changed within a single menu, the right button is labeled >> instead of **SAVE**. **Pressing >>** will move the highlighted segment to the next entity that can be changed. When the highlighted segment is on the last possible entity that can be changed, the right button reverts back to **SAVE**. In case of submenus, the operation follows the same process.



If in the middle of changing a setting the computer does not receive any input for a period of 3 minutes, it will automatically switch back to the **time of day** display without saving any changes.

2.2 Setting the oxygen concentration

Upon entering this menu, the current oxygen concentration (O₂%) will be highlighted. Underneath the O₂% you can see the ppO₂ and the corresponding MOD. After changing the oxygen concentration, the ppO₂ will be highlighted. You can change its value between the maximum allowed value (see section 2.3.4) and **1.0bar**. As you change the ppO₂ value, the MOD changes accordingly. Note that the MOD is also a function of water type (salt or fresh) and of atmospheric pressure (and hence altitude).



! WARNING

- Diving with Nitrox may only be attempted by experienced divers after proper training from an internationally recognized agency.
- Before every dive and after changing the tank, you must make sure that the set oxygen concentration in Galileo corresponds to the oxygen concentration in the tank. Setting the wrong oxygen concentration can lead to serious injury or death.

2.3 Dive settings



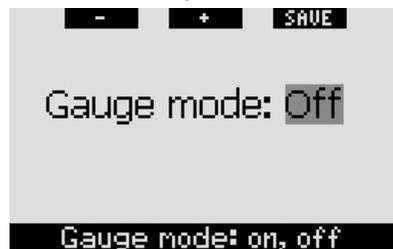
2.3.1 MB level (default: L0)

Upon entering this menu, the currently active MB level is displayed. Using the + and - buttons you can change between levels, from **L0** (baseline algorithm) to **L5** (highest level of added conservatism).



2.3.2 Gauge mode (default: OFF)

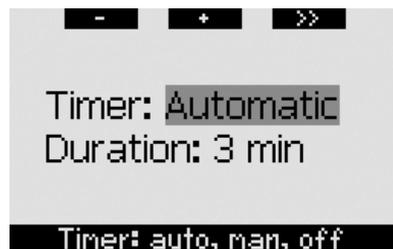
Upon entering this menu, the words **ON** or **OFF** will be highlighted on the screen, indicating whether the gauge mode is active (**ON**) or inactive (**OFF**). If the gauge mode is inactive, Galileo will function as a dive computer. If the gauge mode is active, Galileo does not carry out any decompression calculation and does not provide any warnings or alarms.



See section 3.7 for restrictions on setting Galileo from computer mode to gauge mode and vice versa.

2.3.3 Safety stop timer (default: automatic, 3 minutes)

The purpose of the safety stop timer is to allow you to monitor your safety stop at the end of the dive. You can set the duration of the safety stop timer between **1** and **5** minutes in one minute increments. You can also set the timer to be triggered **automatically** or **manually** or you can turn the function **OFF** altogether. The operation of the safety stop timer is described in section 3.4.3.



2.3.4 ppO₂max (default: 1.4bar)

The value of ppO₂max determines your MOD based on your oxygen mix. You can set this value between **1.2bar** and **1.6bar** or **OFF**.



If you set ppO_2max to **OFF**, you will not get any MOD warnings. If you choose **OFF**, you will be required to enter an additional confirmation in the form of a safety code. The safety code is **313**. This prevents unintentionally setting the ppO_2max to **OFF**. To enter the code, use the **+** and **-** buttons to define the first digit (**3**), then **press >>** to confirm it. Now define the next digit (**1**), confirm by **pressing >>**, then define the last digit (**3**). Upon **pressing SAVE** after having defined the last digit, ppO_2max will be set to **OFF** and you will have no related warnings. The display shows the message **ppO₂max SET TO OFF SUCCESSFUL** for 2 seconds.

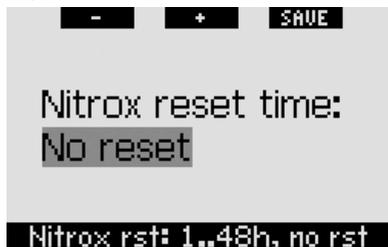


WARNING

Setting the ppO_2max value to **OFF** can result in exposure to high levels of oxygen partial pressure and can result in serious injury or death.

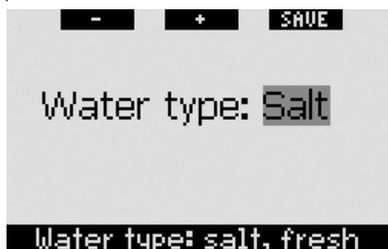
2.3.5 Nitrox reset time (default: no reset)

If you set the computer to an oxygen concentration higher than 21% (diving with Nitrox), you can decide whether the computer should revert back to 21% (air) at some point in time or if it should stay set to the given oxygen concentration until you change it manually. This is done via the Nitrox reset time. If you set the Nitrox reset time to **NO RESET**, the computer will maintain the given oxygen concentration until you change it manually. If you set the Nitrox reset time to any value between **1 hour** and **48 hours**, the computer will automatically change the oxygen concentration back to 21% after the specified time interval has elapsed.



2.3.6 Water type (default: salt)

You can set the computer for **fresh** water or **salt** water calibration, depending on where you intend to dive. Setting the wrong water type entails an error in depth measurement of approx 3% (i.e. at a depth of 30m/100ft, a computer set to salt water will show 29m/97ft in fresh water whereas a computer set to fresh water will show 31m/103ft in salt water). Note that this does not affect the proper functioning of the computer, since the computer performs all of the calculations based purely on pressure measurements.



2.3.7 Desaturation reset

Galileo allows you to reset the desaturation in the computer. Any tissue saturation information from a recent dive will be reset to zero and the computer treats the next dive as a non-repetitive dive. This is useful when the computer is loaned to another diver who has not dived in the last 48 hours.

WARNING

Diving after having reset the desaturation is extremely dangerous and is very likely to cause serious injury or death. Do not reset the desaturation unless you have a valid reason to do so.

To prevent accidental desaturation reset, you must enter the safety code once you decide to proceed with the reset. The safety code is **313**. Once inside the menu the word **CODE** will appear. To enter the code, use the **+** and **-** buttons to define the first digit (**3**), then **press >>** to confirm it. Now define the next digit (**1**), confirm by **pressing >>**, then define the last digit (**3**). **Pressing SAVE** after having defined the last digit will complete the desaturation process. The display shows the message **DESATURATION RESET SUCCESSFUL** for 2 seconds. Note that the reset of the desaturation is entered into the logbook for tracking purposes.

NOTE:

Removing and replacing the battery will not reset the desaturation. Galileo stores tissue saturation information in non-volatile memory. For the time during which the computer is without battery, the desaturation calculation is frozen and resumes from where it had left off as soon as a new battery is installed.



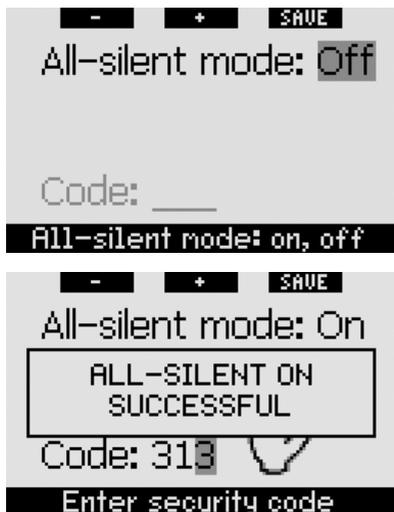
2.3.8 All-silent mode (default: OFF)

In this menu you can turn off the sound so that the computer will not beep under any circumstance. Setting the **ALL-SILENT** mode to **ON** overrides any setting you choose for individual warnings (described in section 2.6) and also mutes all alarms (described in section 3.2). The wake-up alarm will also be disabled.

WARNING

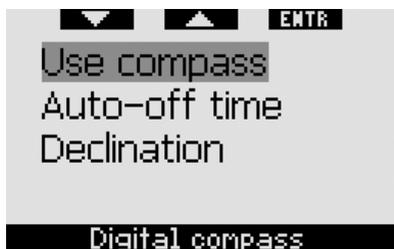
Muting all alarms can lead you into potentially dangerous situation and could result in serious injury or death.

If you choose **ALL-SILENT ON**, you will be required to enter an additional confirmation in the form of a safety code. The safety code is **313**. This prevents unintentionally setting the **ALL-SILENT** to **ON**. To enter the code, use the **+** and **-** buttons to define the first digit (**3**), then **press >>** to confirm it. Now define the next digit (**1**), confirm by **pressing >>** then define the last digit (**3**). Upon **pressing SAVE** after having defined the last digit, **ALL-SILENT** will be set to **ON** and you will have no audible signals of any kind. The display shows the message **ALL-SILENT ON SUCCESSFUL** for 2 seconds.



2.4 Digital compass

Galileo has a tilt-compensated digital compass which can be used at almost any inclination. The compass can be called up at any moment during the dive and it can also be used on the surface. This menu allows you to use the compass on the surface, change the auto-off time and assign a declination to compensate for the deviation between true North and magnetic North.

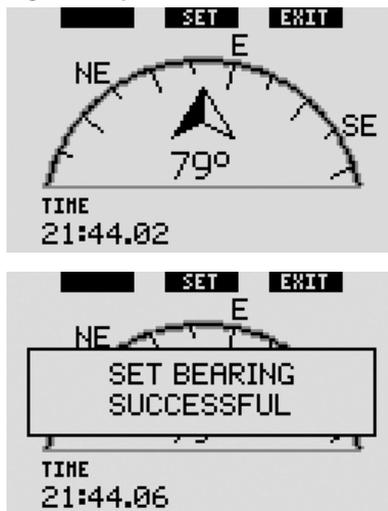


2.4.1 Using the compass on the surface

Upon selecting the **USE COMPASS** menu, the screen will display the compass, the time of day and the surface interval, if applicable. The buttons are now labeled **SET** and **EXIT**.

With the middle button (**SET**), you can set a reference bearing. This is useful for instance if you are on a boat and there is a landmark on the shore that you can use for alignment to reach a specific spot on that dive site. **Press SET** to set the bearing, and the display shows the message **SET BEARING SUCCESSFUL** for 2 seconds. A dot will appear to indicate the set bearing. Once underwater, align the dot with the arrow and start swimming in that direction. If you **press SET** again, the new bearing will override the one in memory. If you **press and hold SET** you erase the bearing. When you set a bearing, Galileo automatically marks the points at 90, 120 and 180 degrees as an aid in navigation. See section 3.4.1 for more information on using this feature.

The right button (**EXIT**) returns to the main **Digital compass** menu.



2.4.2 Setting the auto-off time (default: 15 seconds)

While diving, the compass lay-out replaces the main dive computer screen configuration when the right button is **pressed and held**. When in compass mode, Galileo uses more battery energy than normal, so it is desirable to have the computer switch back to the regular configuration after a certain time interval. This menu allows you to set this time interval between **5, 10, 15, 30** and

60 seconds or to **PUSH ON/PUSH OFF**. In this last setting, the compass lay-out remains on the screen until you **press and hold** the right button to revert to the regular dive computer screen configuration.

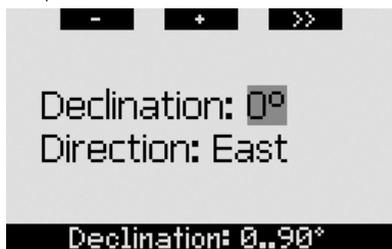
☞ **NOTE:**

- If a warning or an alarm is triggered while in compass mode, Galileo switches back to the regular lay-out regardless of the auto-off setting.
- If Galileo is in compass mode when it enters level stops or decompression, it also switches back to the regular lay-out regardless of the auto-off setting.



2.4.3 Setting the declination (default: 0 degrees)

Depending on the exact location on the planet, there can be a deviation between true North and magnetic North. Any compass will always show magnetic North, so via this menu you can set a value for the so-called declination that will make the compass show true North instead.



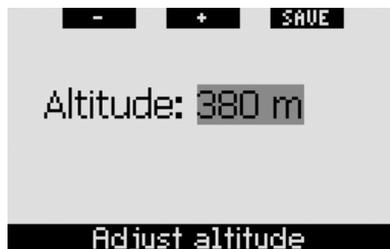
2.5 Altimeter

This menu allows you to use Galileo as an altimeter. Upon entering this menu, the current altitude is displayed. Altitude

is interpreted by the computer from the measured barometric pressure and, as such, it is strongly dependent on the weather. Consequently, for accurate altitude measurements, the altimeter has to be set to a known altitude at least once a day.



To set the altitude, first **press ADJ** to enter the **ADJUST ALTITUDE** menu. Once inside this menu, use the **+** or **-** buttons until you reach the desired value. Each time you **press +** or **-**, the displayed altitude will change in 10m/50ft increments. **Press SAVE** to confirm your choice and return to the main **Altimeter** menu.



☞ **NOTE:**

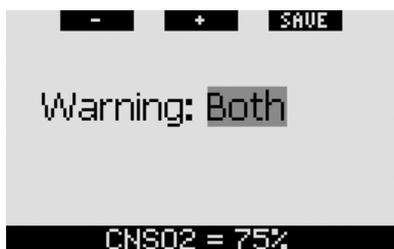
The altitude shown in this menu has no influence on the automatic altitude adjustment in the decompression calculations.

2.6 Warning settings

Galileo can warn you about specific situations that might require an action on your part.

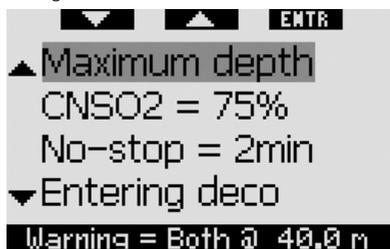
Warnings represent situations that require the diver's attention, but ignoring them does not represent an immediate risk. It is up to you to decide which ones you would like to be active and which ones not. All warnings

can be **OFF**, **VISUAL** only, **AUDIBLE** only, or **BOTH** visual and audible. The audible warning consists of three short sequences of beeps. The visual warning is described independently for each case.



If a warning is set to **VISUAL** or **BOTH** and it is triggered while Galileo is in compass mode, the display will automatically switch back to the regular configuration (**CLASSIC**, **LIGHT** or **FULL**) in order to properly show the warning message.

Each warning has its own submenu within the **Warning settings** menu. Use the “▲” or “▼” buttons to scroll through the list. A highlighted bar will show the selected submenu and the hint line at the bottom indicates the status of the warning. **Press ENTR** to access any submenu. At any point in time **pressing and holding** the right button will return to the **Warning settings** menu without saving any unconfirmed changes.



Galileo also features alarms. Alarms differ from warnings in that they cannot be turned off, and that their audible sequence is continuous until the situation is corrected. These are described in section 3.2. Alarms have priority over warnings, and warnings will not be displayed as long as an alarm is active.

2.6.1 Maximum depth (default: OFF)

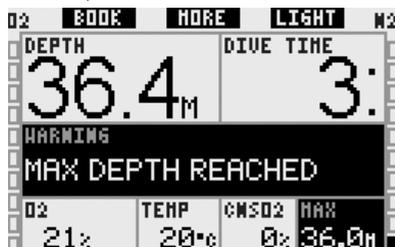
Galileo allows you to specify a depth at which a warning is activated. The warning can be set in 1m/5ft increments.



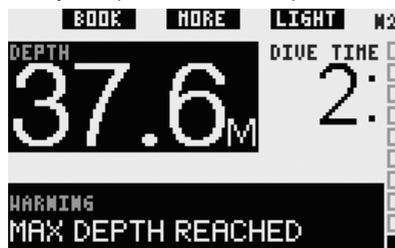
During the dive, if you descend below the set depth and the warning is set to either **VISUAL** or **BOTH**, Galileo will show the message **MAX DEPTH REACHED** for 12 seconds in place of the no-stop or decompression information.

In addition:

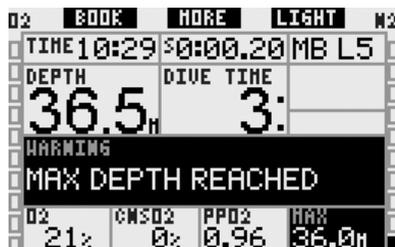
- For the **CLASSIC** configuration, the value of the set depth replaces the max depth indication and is shown in inverted colors (white on black background). This will remain so for as long as the diver stays deeper than the set depth.



- For the **LIGHT** configuration, the current depth is displayed in inverted colors (white on a black background) and will remain so until the diver ascends above the set depth. In addition, after the text message extinguishes, in the lower left corner the value of the set depth is shown in inverted colors. Alternate information is still available as described in section 3.3.3, but after 5 seconds the inverted set depth is shown again. This will remain so for as long as the diver stays deeper than the set depth.

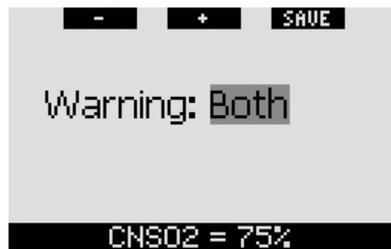


- For the **FULL** configuration, the value of the set depth replaces the max depth indication and is shown in inverted colors (white on black background). This will remain so until the diver ascends above the set depth.



2.6.2 CNS O₂ = 75% (default: OFF)

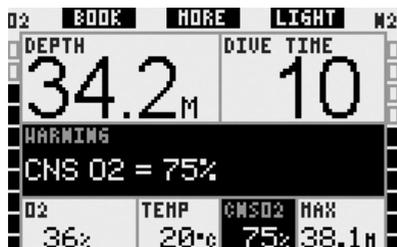
Galileo tracks your oxygen uptake during the dive via the CNS O₂ clock. This can be monitored via the oxygen bar on the left side of the screen (**CLASSIC** and **FULL** display configurations) and also via the CNS O₂ indication (**CLASSIC**, **LIGHT** and **FULL**). Galileo triggers an alarm when the value reaches 100%; in addition you can choose to have a warning triggered when the CNS O₂ clock reaches 75%.



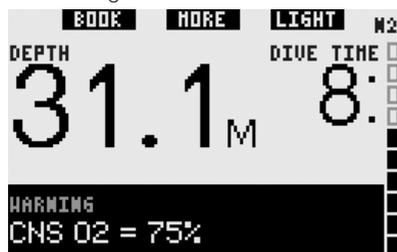
During the dive, if the calculated CNS O₂ value reaches 75% and the warning is set to either **VISUAL** or **BOTH**, Galileo will show the message **CNS O₂ = 75%** for 12 seconds in place of the no-stop or decompression information.

In addition:

- For the **CLASSIC** configuration, the value of CNS O₂ is shown, in inverted colors (white on black background). This will remain so for as long as the CNS O₂ value is higher than 75%.



- For the **LIGHT** configuration, after the text message extinguishes the CNS O₂ is displayed in inverted colors (white on a black background) in the lower left corner. This will remain so for as long as the CNS O₂ value is higher than 75%. Alternate information is still available as described in section 3.3.3 but after 5 seconds the inverted CNS O₂ is shown again.



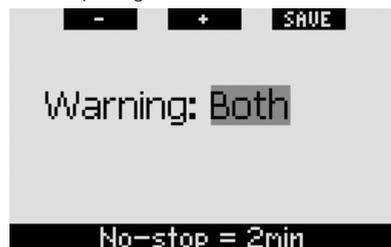
- For the **FULL** configuration, the CNS O₂ is shown in inverted colors (white on black background). This will remain so for as long as the CNS O₂ value is higher than 75%.



2.6.3 No-stop = 2 minutes (default: OFF)

If you wish to avoid unintentionally performing a decompression dive, Galileo can activate a warning when the no-stop time reaches 2 minutes. This applies to both L0 no-stop

and MB no-stop time (see section 3.5 for more information on MB level diving). It gives you the opportunity to start ascending before incurring a decompression stop or a level stop obligation.



During the dive, if the no-stop time reaches 2 minutes and the warning is set to either **VISUAL** or **BOTH**, Galileo will show the message **NO STOP = 2 MINUTES** on the display for 12 seconds. The following figures show the actual display in the various dive configurations (**CLASSIC**, **LIGHT** and **FULL**).





2.6.4 Entering decompression (default: OFF)

Galileo can activate a warning when the first mandatory decompression stop appears. This alerts the diver to the fact that a direct ascent to the surface is no longer possible. This warning applies to dives with the computer set to L0 only.



During the dive, if you are about to enter decompression and the warning is set to either **VISUAL** or **BOTH**, Galileo will show the message **ENTERING DECO** on the display for 12 seconds. The following figures show the actual display in the **CLASSIC**, **LIGHT** and **FULL** configurations.



2.6.5 Dive time and turn-around time (default: OFF)

With Galileo you can set a given dive time in five minute increments. At half of the set value, Galileo will give you a “turn around” warning. A warning is also triggered when the total set time has elapsed.



During the dive, if the dive time reaches half the value of the set dive time and the warning is set to either **VISUAL** or **BOTH**, Galileo will show the message **TURN-AROUND TIME** on the display for 12 seconds. The following figures show the actual display in the various dive configurations (**CLASSIC**, **LIGHT** and **FULL**).



When the actual dive time reaches the set dive time, the message **TIME LIMIT REACHED** appears for 12 seconds and the dive time itself now is shown in inverted colors (white on a black background). The following figures show the actual display in the various dive configurations (**CLASSIC**, **LIGHT** and **FULL**).



2.6.6 Entering level stops (default: OFF)

When diving with a microbubble (MB) level different than L0, Galileo can warn you when you are no longer in the MB no stop phase. See section 3.5 for more information on MB level diving.



During the dive, when you are about to enter the level stop phase and the warning is set to either **VISUAL** or **BOTH**, Galileo will show the message **ENTERING LEVEL STOPS** on the display for 12 seconds. The following figures show the actual display in the **CLASSIC**, **LIGHT** and **FULL** configurations.



2.6.7 MB stop ignored (default: BOTH)

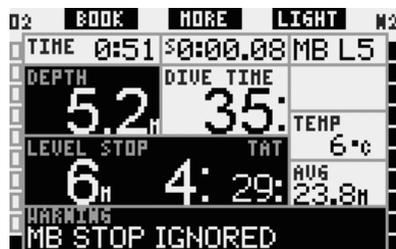
When diving with an MB level higher than L0 and in the presence of MB level stops, Galileo can warn you if you reach a depth shallower than the deepest required MB level stop, therefore allowing you to avoid missing the required stop.



During the dive, if you ascend shallower than a suggested MB stop depth and the warning is set to either **VISUAL** or **BOTH**,

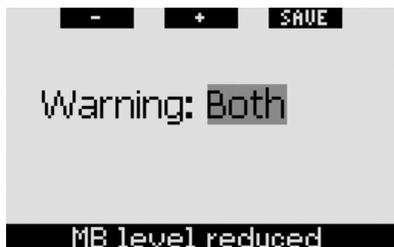
Galileo will show the message **MB STOP IGNORED** on the display for 12 seconds and the depth is shown in inverted colors (white on a black background) until you descend below the stop depth or until there is an MB level reduction (see section 2.6.8 and 3.5.5). The following figures show the actual display in the **CLASSIC** and **FULL** configurations.

In **LIGHT** configuration, in presence of an ignored MB stop, the display momentarily switches to the **CLASSIC** configuration. Once the diver returns to the prescribed depth, the display resumes the **LIGHT** configuration.



2.6.8 MB level reduced (default: BOTH)

When diving with an MB level higher than L0 and in the presence of MB level stops, if you ascend more than 1.5m/5ft above the deepest required MB level stop, Galileo reduces your MB level to the next possible level. The display will show the new active MB level. You can set Galileo to warn you when this happens.



During the dive, if you ascend more than 1.5m/5ft above a suggested MB stop depth and the warning is set to either **VISUAL** or **BOTH**, Galileo will show the message **MB LEVEL REDUCED** on the display for 12 seconds. In addition, regardless of the setting of the warning, the new MB level is displayed in inverted color (white on a black background) as follows:

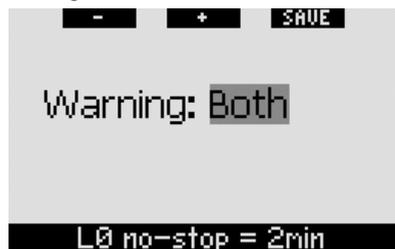
- **CLASSIC**: in the lower left corner after the text message extinguishes. Alternate information is accessible as described in section 3.3.2, but after 5 seconds the new MB level information is again shown;
- **LIGHT**: in the lower left corner after the text message extinguishes. Alternate information is accessible as described in section 3.3.3, but after 5 seconds the new MB level information is again shown; in presence of decompression, the new MB level information alternates in 4-second intervals with the decompression information;
- **FULL**: in place of the MB level.

The following figures show how the warning message is displayed in **CLASSIC** and **FULL** configurations. In **LIGHT** configuration, in presence of this warning, the display momentarily switches to the **CLASSIC** configuration.



2.6.9 L0 no-stop time = 2 minutes when diving an MB level

When diving with an MB level higher than L0, the underlying L0 information is not directly visible on the display (though it is accessible as alternate information). You can choose to have Galileo warn you when the underlying L0 no-stop time reaches 2 minutes while diving with an active MB level higher than L0.



During the dive, if the underlying L0 no-stop time reaches 2 minutes and the warning is set to either **VISUAL** or **BOTH**, Galileo will show the message **L0 NO-STOP = 2 MIN** on the display for 12 seconds. The following figures show the actual display in the **CLASSIC**, **LIGHT** and **FULL** configurations.





2.6.10 Entering deco when diving an MB level

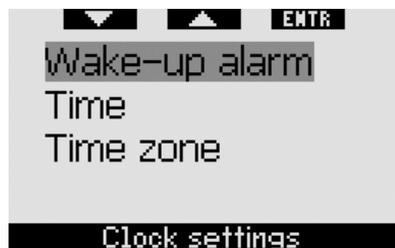
When diving with an MB level higher than L0, the underlying L0 information is not directly visible on the display (though it is accessible as alternate information). You can choose to have Galileo warn you when you are about to enter a decompression obligation while diving with an active MB level higher than L0.



During the dive, if you are about to enter decompression and the warning is set to either **VISUAL** or **BOTH**, Galileo will show the message **ENTERING DECO AT L0** on the display for 12 seconds. The following figures show the actual display in the **CLASSIC**, **LIGHT** and **FULL** configurations.



2.7 Clock settings



2.7.1 Wake-up alarm



This menu allows you to set a wake-up alarm. The time of the alarm is shown in the format specified in the **Time** menu (either in **AM/PM** or **24hour**). When the alarm is set to **ON**, a bell symbol appears in the **time of day** display.

2.7.2 Time

This menu allows you to set the time format, time and date.



Pressing **SAVE** at the last setting starts the clock at the set time and zero seconds.

2.7.3 Time zone (UTC)

This menu allows you to easily change the time when traveling to other time zones. Instead of changing the actual time itself, in this menu you can define a number of hours to add to or to subtract from the currently displayed time so as to get the correct time at your travel destination.



The range of the UTC setting is between -13 hours and +13 hours in 15 minute increments.

2.8 Other settings



2.8.1 Device information

This menu displays the device ID number (**ID**), the hardware version (**HW**), the software version (**SW**), the battery level and the ASIC version. Press **EXIT** to exit this submenu and return to the **Other settings** menu.



2.8.2 Backlight duration (default: 6 seconds)

You can set the duration of the backlight in dive mode between 2 and 12 seconds or to **PUSH ON/PUSH OFF**. The backlight is activated by **pressing** the **LIGHT** button. If you choose **PUSH ON/PUSH OFF**, the light will stay on until you **press** the **LIGHT** button again to turn it off.

NOTE:

- The **backlight** consumes battery energy: the longer the backlight stays on, the shorter the life of your battery.
- If the **LOW BATTERY** warning is activated, it is no longer possible to activate the backlight.



When in surface mode, the light can only be activated from the **time of day** display, when the right button is marked **LIGHT**. The backlight in surface mode has a duration of 1 minute before automatically switching off, which allows for enough time to navigate through menus and make changes to settings. It can be turned off at any time by **pressing the LIGHT** button again.

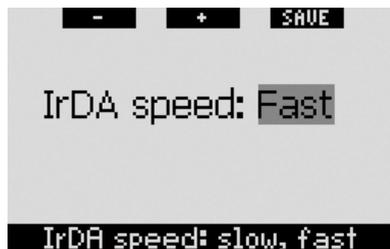
2.8.3 Display contrast

This menu allows you to change the contrast of the display to adapt to various levels of light conditions. Upon entering this menu, a sliding bar appears across the display. Use the “◀” and “▶” buttons to set your preferred contrast level.



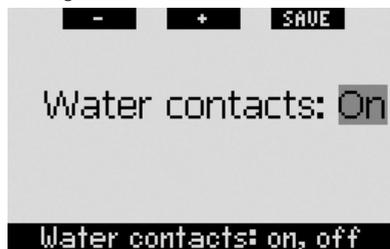
2.8.4 IrDA speed (default: FAST)

Galileo can transmit dive profile information from its memory to a PC via an infrared interface. This submenu allows you to choose the speed at which the transfer takes place. On the **FAST** speed setting, the transfer is approximately three times faster than on the **SLOW** setting, but the **SLOW** setting has wider compatibility with various infrared interfaces. We suggest starting with **FAST** and, if that gives trouble, switching to **SLOW**.



2.8.5 Water contacts (default: ON)

The water contacts allow Galileo to turn on automatically the moment it senses the presence of water. This means that you can jump in the water at any time without having to worry whether the computer is turned on. However, if the computer is stored in a wet environment, it may stay turned on and consume unnecessary battery power. To prevent this, you can turn the water contacts off, but you will have to remember to turn on the computer manually before starting the dive.



NOTE:

If the water contacts are turned off and you fail to turn on the computer manually, the computer will still activate by itself within one minute of having started the dive. The time and decompression calculation will be consequently inaccurate, but the accuracy of the depth measurement will be unaffected.

2.8.6 Revert to factory settings

This menu allows you to revert all settings in all menus of the computer back to the original factory settings. In order to do this, you need to enter the safety code (**313**). This prevents unintentionally reverting all

settings. To enter the code, use the + and - buttons to define the first digit (3), then press >> to confirm it. Now define the next digit (1), confirm by pressing >> then define the last digit (3). Upon pressing **SAVE** after having defined the last digit, a set-up routine is initiated. This allows you to choose the language, units and time zone after which all settings will be reverted to the original factory defaults. The display shows the message **REVERT TO FACTORY SETTINGS SUCCESSFUL** for 2 seconds.



NOTE:

Reverting to factory settings does not cancel existing owner and emergency information.

2.9 Personalization (patents pending)



2.9.1 Screen configuration (default: CLASSIC WITH GRID)

In this menu you can set your preferred display lay-out, as described in Chapter 1. You can choose between **CLASSIC**, **CLASSIC WITH GRID**, **LIGHT** and **FULL** configurations. You can also rotate the display by 180 degrees, so that the buttons are at the bottom of the computer.



2.9.2 Language

In this menu you can set the language used for all texts displayed on the computer.



2.9.3 Start-up picture (default: Galileo logo)

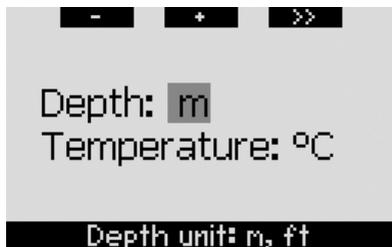
Galileo allows you to choose a picture that will be displayed for 8 seconds upon

turning on the computer. In this menu you choose the picture from those available in the computer memory.



2.9.4 Units

You can choose to have the depth displayed in meters or feet and the temperature in degrees Celsius or degrees Fahrenheit.



2.9.5 Owner information

The information in this menu can only be entered via the SmartTRAK software. A maximum of twenty lines are allowed. You can scroll through the text using the “▲” and “▼” buttons. The top two lines of this information are displayed in surface mode when there is no remaining desaturation (see section 1.3).

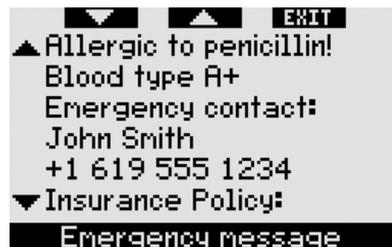


2.9.6 Emergency information

The information in this menu can only be entered via the SmartTRAK software. A maximum of twenty lines are allowed. You

can scroll through the text using the “▲” and “▼” buttons.

If Galileo goes into **SOS** mode because of a missed decompression stop, this menu will be displayed if the middle button is **pressed** (see section 1.6).



2.10 Pictures

This menu allows you to view all the pictures that have been uploaded via SmartTRAK to your dive computer. You can jump directly to this menu from the **time of day** display by **pressing and holding** the middle (**LOG**) button. Once you are in picture viewing mode, use the “<<” and “>>” buttons to scroll through the pictures. With the **EXIT** button you can return to the **time of day** display.



2.11 Dive planner

This menu allows you to plan no-stop or decompression dives. Dive planning is done using the following as basis:

- selected oxygen concentration
- selected water type
- selected microbubble level
- water temperature of the most recent dive
- altitude range

- status of saturation at the time the planner is started
- a normal workload of the diver and observance of the prescribed ascent rates.

If there is remaining desaturation on the computer at the time of starting the dive planner, the text **ADD. SURF. INT.** appears on the display. This allows you to define an additional surface interval to what has already elapsed since the end of the last dive. **Press** the **+** or **-** buttons to define this interval, then **press >>** to confirm it. If at present there is a prohibited altitude recommendation due to the last dive, Galileo shows you how the prohibited altitude changes with increasing surface interval. **Press >>** directly if you want to plan without an additional surface interval. In case Galileo is displaying the no-dive warning (section 1.5), the duration of the warning itself is displayed as recommended surface interval for planning purposes (rounded up to the nearest fifteen minute increment).

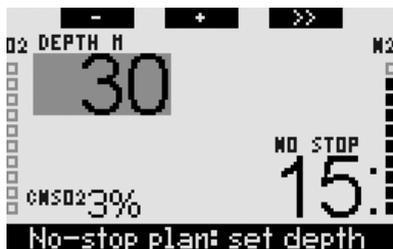


2.11.1 Planning a no-stop dive

To plan a no-stop dive, enter a depth using the **+** or **-** buttons (depth will change in 3m/10ft increments): Galileo will show you what the corresponding no-stop time is. Depths greater than the current MOD are not displayed. **Press and hold >>** at any time to exit the dive planner and return to the main menu.

NOTE:

*If you have set ppO_2max to **OFF**, the planner will show only depths up to a corresponding ppO_2max value of 1.6bar.*

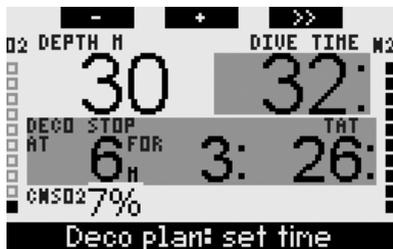


At any point, **press >>** to switch to the decompression dive planner for the indicated depth. Galileo will add one minute to the no-stop time and show the resulting decompression obligation.

2.11.2 Planning a decompression dive

Once in the decompression dive planner, you can change the bottom time in one minute steps via the **+** and **-** buttons. Every time you increase the bottom time, Galileo shows you the corresponding decompression schedule in terms of deepest stop, time at deepest stop and total ascent time.

Pressing >> while in the decompression dive planner will bring you back to the no-stop dive planner. This allows you to choose a different depth and continue planning. To exit the dive planner at any point in time, **press and hold >>**. This will bring you back to the main menu.



2.12 Reviewing the logbook

A dive is entered into the logbook if the dive time is longer than 2 minutes. Galileo can record the profiles of approximately 100 hours of diving. The information can be transferred to PC via the SmartTRAK software and an infrared interface (see Chapter 4 for details). In addition, Galileo can show most of the information directly

on the display. You can reach the logbook from the main menu or by **pressing** the **LOG** button from the **time of day** display.

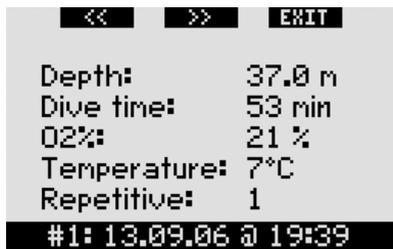


Upon first entering the **Logbook** menu, a summary page is presented with each dive reduced to a two-line format. These two lines contain:

- sequential dive number (the most recent dive is always dive number 1)
- date
- time
- max depth
- bottom time.

Using the “▲” and “▼” buttons, you can scroll through the entire list of dives.

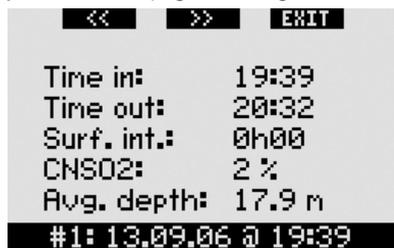
Press ENTR to look up any particular dive. For each dive there are five pages.



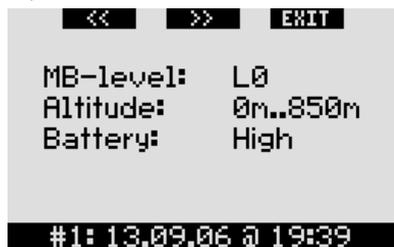
The first page contains details about depth, time, set oxygen concentration, minimum water temperature and dive number for that day. By **pressing** >> you advance to the second page of the log, whereas by **pressing** << you advance to the last page of the log.



The second page shows the depth and the temperature profiles. **Pressing** >> brings you to the third page of the log.



The third page shows the time the dive started, the time the dive ended, the surface interval prior to this dive, the CNS O₂ level at the end of this dive and the average depth of the dive.



The fourth page shows the MB level with which the dive was started and, if there was an MB level reduction, what the final MB level was. It also shows the altitude class and the lowest battery level during the dive.



The fifth page shows a listing of all the alarms and warnings that were triggered during the dive.

Within the list of dives there is also **Dive statistics** with a range of dates. On this page you can see the longest dive ever made with the computer, the deepest dive, the total time spent underwater, the total number of dives and also the number of hours that the computer has been on (on the surface or diving) since the last battery change.



At any point in time inside the **Logbook** menu, **press EXIT** to return to the main **Logbook** menu.

3. DIVING WITH GALILEO

3.1 Nitrox

Nitrox is the term used to describe breathing gases made of oxygen-nitrogen mixes with oxygen percentage higher than 21% (air). Because Nitrox contains less nitrogen than air, there is less nitrogen loading on the diver's body at the same depth as compared to breathing air.

However, the increase in oxygen concentration in Nitrox implies an increase in oxygen partial pressure in the breathing mix at the same depth. At higher than atmospheric partial pressures, oxygen can have toxic effects on the human body. These can be lumped into two categories:

- Sudden effects due to oxygen partial pressure over 1.4bar. These are not related to the length of the exposure to high partial pressure oxygen, and can vary in terms of the exact level of partial pressure they happen at. It is commonly accepted that partial pressures up to 1.4bar are tolerable, and several training agencies advocate maximum oxygen partial pressures up to 1.6bar.
- Long exposure effects to oxygen partial pressures over 0.5bar due to repeated and/or long dives. These can affect the central nervous system, cause damage to lungs or to other vital organs.

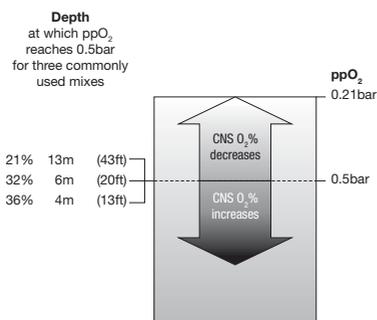
Galileo keeps you safe with respect to these two effects in the following ways:

- 1) Against sudden effects: Galileo has an MOD alarm set for a user-defined ppO_2 max. As you enter the oxygen concentration for the dive, Galileo shows you the corresponding MOD for the defined ppO_2 max. The default value of ppO_2 max from the factory is **1.4bar**. This can be adjusted to your preference between **1.2** and **1.6bar**. It can also be turned **OFF**. Please refer to section 2.3.4 for more information on how to change this setting.
- 2) Against long exposure effects: Galileo "tracks" the exposure by means of the CNS O_2 clock. At levels of 100% and

higher there is risk of long exposure effects, and consequently Galileo will activate an alarm when this level of CNS O₂ is reached. Galileo can also warn you when the CNS O₂ level reaches 75% (see section 2.6.2). Note that the CNS O₂ clock is independent of the value of ppO₂max set by the user.

The CNS O₂ clock increases when the oxygen partial pressure is higher than 0.5bar, and decreases when the oxygen partial pressure is lower than 0.5bar. Hence, while on the surface breathing air you will always be decreasing the CNS O₂ clock. During the dive, the depth at which 0.5bar is reached for various mixes is as follows:

Air:	13m/43ft
32%:	6m/20ft
36%:	4m/13ft



3.2 Alarms

Galileo can alert you of potentially dangerous situations via warnings and alarms.

Warnings represent situations that require the diver's attention, but ignoring them does not represent an immediate risk. The detailed description of each warning and how it appears on the screen is presented in section 2.6.

Alarms, on the other hand, can not be turned off because they represent situations that do require immediate action by the diver. There are five different alarms:

1. Ascent rate alarm
2. Exceeding a safe ppO₂/MOD
3. CNS O₂ = 100%
4. Missed decompression stop
5. Low battery during the dive

WARNING

When in gauge mode, all warnings and all alarms are **OFF** aside for the low battery alarm.

NOTE:

- Alarms are both visual and audible, as described in detail below.
- If you are in **COMPASS** mode when an alarm is triggered, Galileo will revert to the regular computer display (**CLASSIC**, **LIGHT** or **FULL**) in order to properly display the message related to the alarm.
- Ascent rate alarm has priority over other alarms if they are triggered simultaneously.
- If warnings are activated while alarms are showing, the former will show only after the alarms have expired and only if they are still applicable at that time.

3.2.1 Ascent rate

As you ascend during a dive, the pressure surrounding you diminishes. If you ascend too quickly, the ensuing pressure reduction could lead to microbubble formation. If you ascend too slowly, the continued exposure to high ambient pressure means that you will continue loading some or all of your tissues with nitrogen. Consequently, there is an ideal ascent rate that is slow enough to minimize microbubble formation yet fast enough to minimize the effect of continued loading on your tissues.

The pressure reduction that the body can tolerate without significant microbubble formation is higher at depth than it is in the shallows: the key factor is not the pressure drop by itself, but rather the ratio of the pressure drop relative to the ambient pressure. This means that the ideal ascent

rate at depth is higher than it is in the shallows.

Along these lines, Galileo employs a variable ideal ascent rate: its value ranges between 7 and 20m/min and the actual breakdown by depth range is listed in the table below.

depth (m)	<6	<12	<18	<23	<27	<31
speed (m/min)	<35	<39	<44	<50	>50	
depth (ft)	<20	<40	<60	<75	<88	<101
speed (ft/min)	<115	<128	<144	<164	>164	
speed (m/min)	7	8	9	10	11	13
speed (ft/min)	15	17	18	19	20	
speed (m/min)	23	26	29	33	36	43
speed (ft/min)	49	56	59	62	66	

During an ascent, the nitrogen loading bar graph is replaced by a graphical ascent rate indication. The full height of the bar graph represents twice the ideal ascent rate, so that when you are ascending at the ideal ascent rate half of the bar graph is lit. If more than half of the bar is lit you are ascending too fast. In addition, for **CLASSIC** and **FULL** only, Galileo displays the ascent rate also numerically.

If the ascent rate is greater than 110% of the ideal value the message **ASCENT TOO FAST!** appears.

The following pictures show how the ascent rate alarm message and the ascent rate value are displayed for the various screen configurations.



Galileo also provides an audible alarm in case of ascent rates exceeding 110%: the intensity of the alarm increases in direct proportion to the degree that the ideal ascent rate is exceeded.

- In case of a fast ascent, Galileo may require a decompression stop even within the no-stop phase because of the danger of microbubble formation.
- From great depth a slow ascent may cause heightened saturation of tissues and an extension of both decompression duration and total ascent time. At shallow depth, a slow ascent may shorten the decompression duration.
- Excessive ascent rates for longer periods are entered in the logbook.

WARNING

The ideal ascent rate must not be exceeded at any time since this could lead to microbubbles in the arterial circulation which could cause serious injury or death.

Both the visual and the audible alarm persist for as long as the ascent rate is 110% or more of the ideal ascent rate.

3.2.2 MOD/ppO₂**⚠ WARNING**

- The MOD should not be exceeded. Disregarding the alarm can lead to oxygen poisoning.
- Exceeding a ppO₂ of 1.6bar can lead to sudden convulsions resulting in serious injury or death.

In **CLASSIC** configuration, the alarm message **MOD EXCEEDED** is displayed in place of the no-stop or decompression information for 12 seconds, after which it is repeated in 4-second intervals. In addition, the current depth is shown in inverted colors (white on a black background) and **MOD** and the value of the MOD are displayed, also in inverted colors, in place of the max depth. This will not change until the diver ascends 1m/3ft above the MOD. The audible signal persists until the diver ascends 1m/3ft above the MOD.



In **LIGHT** configuration, the alarm message **MOD EXCEEDED** is displayed in place of the no-stop information for 12 seconds, after which it is repeated in 4-second intervals. In addition, the current depth is displayed in inverted colors (white on a black background) and remains like this until the diver ascends 1m/3ft above the MOD. The audible signal persists until the diver ascends 1m/3ft above the MOD.



In **FULL** configuration, the alarm message **MOD EXCEEDED** is displayed in place of the no-stop or decompression information for 12 seconds, after which it is repeated in 4-second intervals. In addition, the current depth is shown in inverted colors (white on a black background) and **MOD** and the value of the MOD are displayed in place of the max depth, also in inverted colors. This will not change until the diver ascends 1m/3ft above the MOD. The audible signal persists until the diver ascends 1m/3ft above the MOD.

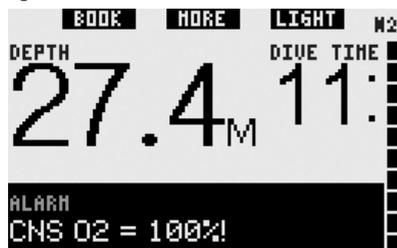
3.2.3 CNS O₂ = 100%**⚠ WARNING**

When the CNS O₂ reaches 100% there is danger of oxygen toxicity. Start procedure to terminate the dive.

In **CLASSIC** configuration, the alarm message **CNS O₂ = 100%** is displayed in place of the no-stop or decompression information for 12 seconds and during this time the audible signal goes off. In addition, the CNS O₂ information is displayed in inverted colors (white on a black background) and remains displayed until the CNS O₂ value drops under 100%.



In **LIGHT** configuration, the alarm message **CNS O₂ = 100%** is displayed in place of the no-stop information for 12 seconds and during this time the audible signal goes off. In addition, after the text message extinguishes, the CNS O₂ is displayed in inverted colors (white on a black background) in the lower left corner. This will remain so for as long as the CNS O₂ value is higher than 100%. Alternate information is available as described in section 3.3.3 but after 5 seconds the inverted CNS O₂ is again shown.



In **FULL** configuration, the alarm message **CNS O₂ = 100%** is displayed in place of the no-stop or decompression information for 12 seconds and during this time the audible signal goes off. In addition the CNS O₂ information is displayed in inverted colors (white on a black background) until the CNS O₂ value drops under 100%.



In all configurations, the alarm message and the audible signal are repeated for 5 seconds in one minute intervals after the first occurrence and for as long as the value of CNS O₂ stays at or above 100% or until the ppO₂ drops under 0.5bar (see section 3.1 for a list of depths at which ppO₂ equals 0.5bar for some typical Nitrox mixes).

3.2.4 Missed decompression stop



WARNING

Violating a mandatory decompression obligation may result in serious injury or death.

In **CLASSIC** configuration, the alarm message **MISSED DECO STOP!** is displayed for 12 seconds in the bottom row and the depth is shown in inverted colors (white on black background) for as long as the diver stays above the prescribed stop depth. The audible signal persists until the diver descends to the prescribed depth or deeper.



In **LIGHT** configuration, in presence of a missed decompression stop, the display momentarily switches to the **CLASSIC** configuration, and the alarm is presented as described above. Once the diver returns to the prescribed depth, the displays resumes the **LIGHT** configuration.

In **FULL** configuration, the alarm message **MISSED DECO STOP!** is displayed for 12 seconds in the bottom row and the depth is shown in inverted colors (white on black background) for as long as the diver stays above the prescribed stop depth. The audible signal persists until the diver descends to the prescribed depth or deeper.



3.2.5 Low battery

⚠ WARNING

Do not start a dive if the **REPLACE BATTERY** message is displayed on the screen on the surface. The computer may fail to function during the dive and this could lead to serious injury or death.

During the dive, Galileo alerts you of precarious battery situations in two ways:

- By displaying **LOW BATTERY** on the screen. This means you can finish the dive but you should replace the battery once you return to the surface;
- By displaying **REPLACE BATTERY** on the screen. This means you need to start the procedure to terminate the dive, as there is not enough energy in the battery to ensure proper continued functioning and the computer may fail. During a **REPLACE BATTERY** alarm, the backlight cannot be activated, the audible warnings and alarms are not available anymore and the compass cannot be activated.

In a **LOW BATTERY** situation, the message is displayed at the bottom of the screen in 4-second intervals. In **LIGHT** screen configuration, the display switches to **CLASSIC** to allow for all the relevant information to be shown.



⚠ WARNING

If the **REPLACE BATTERY** message appears during the dive, start the procedure to terminate the dive, as the computer may fail. Do not let the battery reach this condition!

In a **REPLACE BATTERY** situation, the message is displayed on the bottom of the screen in 4-second intervals. In **LIGHT** screen configuration, the display switches to **CLASSIC** to allow for all the relevant information to be shown.





3.3 Display information

Upon immersion, the water contacts will automatically activate Galileo, unless they have been turned **OFF**. In this case, you must activate the computer manually before starting the dive. See section 2.8.5 for more information.

At a depth of 0.8m/3ft, Galileo starts to monitor depth and time and also to perform decompression calculations.

Details on the information displayed can be found in the next sections.

3.3.1 Description of entries

This section complements the information listed in the Glossary by adding specific details about Galileo's screen while diving. The **dive time** is displayed as dive time in minutes. If during the dive you ascend to the surface, the time spent on the surface will only be counted if you descend again below 0.8m/3ft within 5 minutes. This allows for brief periods of orientation. While on the surface, the time will not show as progressing but it is running in the background. As soon as you submerge, the time will resume, including the time spent on the surface.

Maximum displayed time is 999 minutes for **CLASSIC** and **FULL** configurations and 99 minutes for **LIGHT** configuration. For dives longer than that, the dive time starts again from 0 minutes.

Depth: the depth is given in 10cm resolution until 99.9 meters, after which it is given in 1m resolution. When the depth is displayed in feet, the resolution is always 1 foot. At a depth shallower than 0.8m/3ft, the display shows ---. Maximum possible depth is 330m/1084ft. At depth greater

than 1000ft, the leading "1" is not shown, so 1084ft will be displayed as "084ft".

WARNING

Galileo functions as a decompression computer to a depth of 120m/394ft only. At depths deeper than 120m/394ft it will automatically switch to gauge mode and it cannot be used as a decompression computer for the remainder of the dive. To alert you of the imminent switch, at depths between 115m/377ft and 120m/394ft Galileo displays the message **SWITCHING TO GAUGE**.

No-stop time: calculated in real time and updated every 0.5 seconds. Maximum displayed no-stop times are 199 minutes for **CLASSIC** and **FULL** configurations and 99 minutes for **LIGHT** configuration.

WARNING

During all dives, perform a safety stop between 3 and 5 meters/10 and 15 feet for 3 to 5 minutes, even if no decompression stop is required.

Temperature: Galileo displays the water temperature during the dive and the air temperature on the surface.

Oxygen bar graph: This is the bar graph on the left side of the display (**CLASSIC** and **FULL** configurations) and it represents oxygen toxicity. The bar graph is made of ten segments. The first segment lights up at a CNS O₂ value of 5%, all other segments light up in 10% increments thereafter. At eight segments the CNS O₂ value corresponds to 75%, for which a warning can be triggered (see section 2.6.2). At 95% all segments are lit. At 100% the CNS O₂ alarm is triggered.



Nitrogen bar graph: This is the bar graph on the right side of the display (**CLASSIC**, **LIGHT** and **FULL** configurations). It represents nitrogen saturation in the leading tissue compartment. The bar graph is made of ten segments. The first nine segments represent gradually more loading but still within no-stop diving; the tenth segment represents the need for a mandatory decompression stop.

1-6 segments: you are safely within the no-stop zone.

7-9 segments: you are approaching decompression.

10 segments: you have a mandatory decompression obligation.

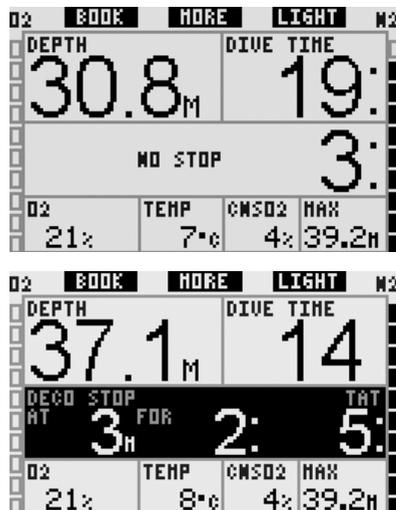
During a surface interval, the segments will gradually turn off as Galileo tracks the offgassing of your tissues.

Decompression information: deepest stop, time at deepest stop, total ascent time: when Galileo calculates the need for a mandatory decompression stop, it shows you **AT** what depth you need to stop first (deepest stop) and **FOR** how long (time at deepest stop). It also gives you the total ascent time (**TAT**). Total ascent times longer than 199 minutes are shown as "- -".

To emphasize the change from a **NO STOP** dive to a **DECOMPRESSION** dive, this information is inverted in color, i.e. white numbers over a black background.

Decompression information at MB L0: if you are diving with an MB level different than MB L0, you can ask Galileo to show you the decompression information pertinent to the underlying MB L0 calculation. For more information on MB levels, please refer to section 3.5.

3.3.2 CLASSIC screen configuration



This screen configuration presents dive parameter information in a classic UWATEC arrangement. More specifically, the following information is displayed:

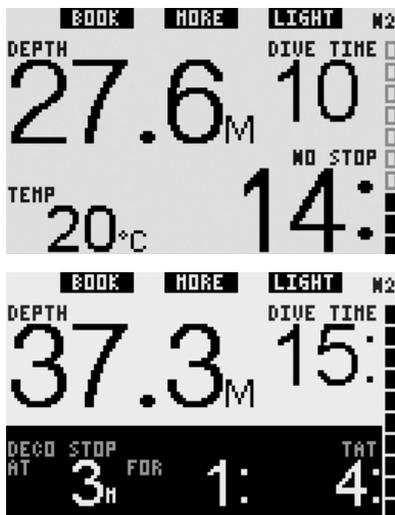
- current depth
- dive time
- no-stop time (only during no-stop phase of dive)
- deepest stop, duration of deepest stop, total ascent time (only during decompression phase of dive)
- oxygen concentration
- water temperature
- CNS O₂
- maximum depth
- nitrogen loading (via right bar graph)
- oxygen toxicity (via left bar graph)

Upon **pressing** the middle button (marked **MORE**), the information in the left corner changes in the following sequence:

- O₂%
- stopwatch
- (active MB level if different than L0)
- (no-stop or decompression information relative to L0 if an MB level between L1 and L5 is active, see section 3.5.3)
- time of day
- average depth
- ppO₂

Each time you **press** the button the information changes to the next one in the sequence and stays there until you **press** the button again. If you **press** the button while the ppO₂ is displayed, the cycle starts again from the oxygen concentration. Each **press** of the left button (**BOOK**) resets and restarts the stopwatch.

3.3.3 LIGHT screen configuration



This screen configuration is meant for those divers that prefer to focus only on the essential information for the dive, yet retain the ability to access some of the remaining information as alternate fields.

More specifically, the following information is displayed:

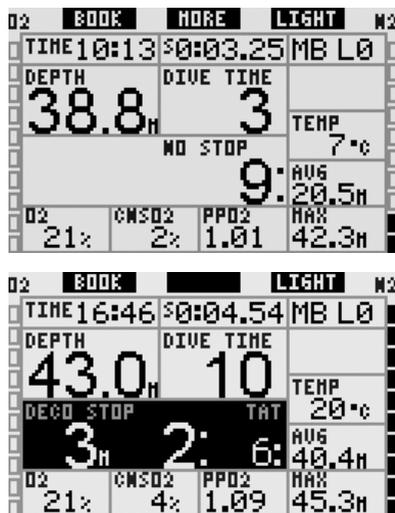
- current depth
- dive time
- no-stop time (only during no-stop phase of dive)
- deepest stop, duration of deepest stop, total ascent time (only during decompression phase of dive)
- nitrogen loading (via bar graph)

Upon **pressing** the middle button (marked **MORE**), you can retrieve alternate information. This information appears in the lower left corner. During no-stop diving, the information will stay there until the **MORE** button is **pressed** again. During

decompression diving, it will replace the decompression information for 5 seconds only. The alternate information appears in the following sequence:

- maximum depth
- O₂%
- temperature
- (active MB level if different than L0)
- (no-stop or decompression information relative to L0 if an MB level between L1 and L5 is active, see section 3.5.3)
- time of day
- CNS O₂
- empty space

3.3.4 FULL screen configuration



This screen configuration is meant for those divers that prefer to have as much information as possible displayed at once. More specifically, the following information is displayed:

- current depth
- dive time
- no-stop time (only during no-stop phase of dive)
- deepest stop, duration of deepest stop, total ascent time (only during decompression phase of dive)
- time of day
- stopwatch
- active MB level
- temperature
- average depth

- max depth
- oxygen concentration
- CNS O₂
- ppO₂
- nitrogen loading (via right bar graph)
- oxygen toxicity (via left bar graph)

The middle button has no label if you are diving with MB L0. **Pressing** it produces no result. If on the other hand you are diving with an MB level between L1 and L5, the middle button will be labelled **MORE** and **pressing** it will show the no-stop or decompression information at L0 for 5 seconds in stead of the information relative to the active MB level.

The stopwatch is reset and restarted by **pressing** the left button (**BOOK**).

3.4 Special functions common to CLASSIC, LIGHT and FULL configurations

3.4.1 Accessing and using the digital compass

In all lay-outs, a **press and hold** of the right button (marked **LIGHT**) brings up the digital compass display on your computer screen. The display also shows the depth, the dive time and the no-stop or decompression information alternating in 4-second intervals with the stopwatch. A **press and hold** of the right button from the compass display returns to the computer display. This also happens after the set auto-off time defined in section 2.4.2.

NOTE:

*If you are in compass mode when Galileo is about to end the no-stop phase, the screen will revert to the regular computer display regardless of the set auto-off time. **Press and hold** the right button again if you wish to return to the compass display.*

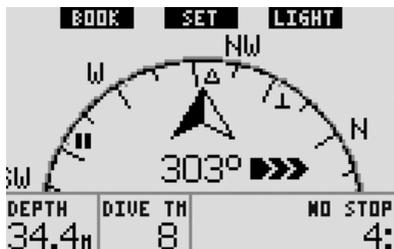


In this lay-out, the button functions change slightly. The middle button is now marked **SET**. **Pressing** this button will set the bearing. Compass bearing represents the direction the front of the computer is pointed at. It is expressed in degrees, from 0 to 359. 0 degrees is North, 90 degrees is East, 180 degrees is South, 270 degrees is West and any other reading is interpolated in between.

The message **SET BEARING SUCCESSFUL** will show on the display and a dot will appear in the position of the set bearing. Setting a bearing allows you to navigate towards a reference direction. A **press and hold** of the middle button will erase the set bearing. Note that the set bearing stays in memory until you either set a new one or erase it. All set bearings are kept in the profile memory and can be viewed with SmartTRAK after downloading the dive to a PC.

If you have set a reference bearing, arrows will appear to the left or to the right of the numeric bearing indication, to show you in which direction you should turn in order to match the set bearing. As an additional aid in navigation, Galileo automatically marks the positions at 90 and 120 degrees to the left and to the right of the set bearing, in addition to the position at 180 degrees (as an aid for square course, triangular

course and reciprocal course navigation respectively). These are denoted with ⊥, Δ and ∥.



The left button (**BOOK**) still allows you to set bookmarks and to reset the stopwatch.

3.4.2 Setting bookmarks

By **pressing** the left button (**BOOK**) you can set any number of bookmarks as reminders of particular moments during the dive. In **CLASSIC**, **FULL** and **COMPASS** configurations, setting a bookmark also resets the stopwatch.

When you set a bookmark in **CLASSIC**, **LIGHT** and **COMPASS** mode, Galileo will display the confirmation message **BOOKMARK SET** (if the safety stop timer is visible on the display, the message is not displayed). In **FULL** and **GAUGE** display configurations it also does not show, since the reset of the stopwatch is already an indication that the bookmark was set successfully). The bookmarks will appear on the dive profile in SmartTRAK.



3.4.3 Safety stop timer

At the end of a dive, at depths of 6.5m/20ft or shallower and if there are no decompression obligations, the left button label changes from **BOOK** to **TIMER** (unless the option is turned **OFF**, see section 2.3.3).

If **SAFETY STOP TIMER** in **DIVE SETTINGS** is set to **AUTOMATIC**:

if a minimum depth of 10m/30ft has been reached during the dive, at a depth of 5m/15ft the safety stop timer will automatically start a countdown and a bookmark will be added to the dive profile. If you go below 6.5m/20ft, the timer will disappear and the no-stop time is shown again. Upon returning to 5m/15ft, the timer will start again automatically. As long as you are shallower than 6.5m/20ft and there are no decompression obligations, you can **press TIMER** to start or restart the countdown manually.

If **SAFETY STOP TIMER** in **DIVE SETTINGS** is set to **MANUAL**:

at a depth of 6.5m/20ft and shallower **pressing TIMER** will activate the safety stop timer and add a bookmark to the dive profile. You can restart the timer any number of times. If you go below 6.5m/20ft, the timer will disappear and the no-stop time will be shown again. You need to **press TIMER** again upon ascending over 6.5m/20ft to restart the timer.

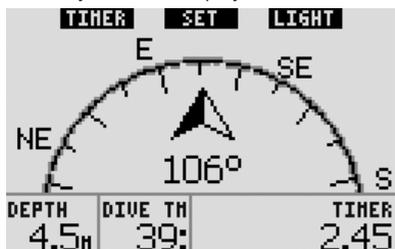
If **SAFETY STOP TIMER** in **DIVE SETTINGS** is set to **OFF**:

It is not possible to activate the safety stop timer.





In compass mode, the safety stop timer works the same way as in the **CLASSIC**, **LIGHT** and **FULL** configurations. If the safety stop timer is active while switching from one configuration to the other, the timer information itself will transition smoothly between displays.



3.4.4 Viewing dive profile, individual compartment saturation and pictures

You can view your dive profile by **pressing and holding** the middle button (marked **MORE**). The screen will show a graphic representation of your dive profile together with a line representing either your possible direct ascent (if in no-stop mode) or your decompression profile (if in decompression mode). The dive profile will remain on your screen for a maximum of 12 seconds after which the dive computer information will appear again. You can revert to the dive

computer screen at any time by **pressing and holding** the right button.



Pressing MORE while the dive profile is displayed brings up a graphical representation of the relative saturation for each of the eight compartments modeled by the ZH-L8 ADT MB algorithm. The height of each bar indicates the ratio of the current tissue loading with respect to the maximum tolerable loading, expressed in percentage. The color denotes whether the compartment is on-gassing or off-gassing: grey denotes compartments that are off-gassing, while black denotes compartments that are on-gassing. This representation, aside for the colors, is analogous to that given by the SmartTRAK software described in section 4.3. This graphical representation will remain on your screen for a maximum of 12 seconds after which the dive computer information will appear again. You can revert to the dive computer screen at any time by **pressing and holding** the right button.



If you have uploaded pictures onto Galileo, you can view them during the dive by **pressing MORE** while the individual compartment saturation is displayed. Every time you **press MORE** while a picture is showing, the next picture in the memory sequence of Galileo will be called up. Each picture stays on the screen for a maximum

of 12 seconds. You can revert to the dive computer screen at any time by **pressing and holding** the right button.

NOTE:

- Profile, compartment saturation and pictures can be viewed for a maximum of 1 minute, after which the regular dive computer screen will appear again.
- If any warning or alarm is triggered while you are viewing the profile, compartment saturation or the pictures, Galileo will immediately revert back to the dive computer screen.

3.4.5 Activating the backlight

To activate the backlight, **press** the right button (marked **LIGHT**). The default duration of the backlight is **6 seconds**, but you can set it between **2 and 12 seconds** in one second increments. You can also set it to **PUSH ON/PUSH OFF**, which means the light stays on until you turn it off by **pressing** the button again.

NOTE:

The backlight is not available when the **REPLACE BATTERY** warning appears.

3.5 Diving with MB levels

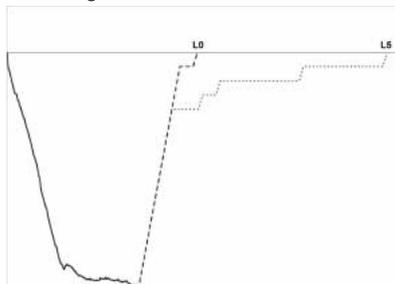
Microbubbles are tiny bubbles that can build up inside a diver's body during any dive and normally dissipate naturally during an ascent and on the surface after a dive. Dives within no-stop time and observance of decompression stops do not prevent the formation of microbubbles in the venous blood circulation. Galileo has been equipped with an enhanced UWATEC algorithm, named ZH-L8 ADT MB, to reduce the formation of these microbubbles.

This enhanced algorithm allows the user to choose a level of conservatism over and in addition to the worldwide proven safety record of the standard ZH-L8 ADT algorithm. There are five levels of added conservatism (or MB levels), from L1 to L5, with L5 being the most conservative and L1 being just a

bit more conservative than the standard ZH-L8 ADT, here referred to as L0.

Choosing an MB level between L1 and L5 makes the algorithm more conservative, therefore the diver will have either shorter no-stop times or deeper and longer decompression stops (referred to as level stops) than when diving with L0. Consequently the body will either take up less nitrogen (shorter no-stop dives) or will be able to off-gas more before returning to the surface (dives with level stops). Both work towards reducing the amount of microbubbles present in the body at the end of the dive.

Please refer to section 2.3.1 for information on setting the MB level.



3.5.1 MB Glossary

Deco stop: decompression stop as requested by L0; mandatory.

L0: baseline algorithm corresponding to ZH-L8 ADT.

L1: first and lowest level of added conservatism.

L2: second level of added conservatism.

L3: third level of added conservatism.

L4: fourth level of added conservatism.

L5: fifth and highest level of added conservatism.

Level stop: decompression stop as requested by active MB levels L1 through L5; not mandatory.

Reduced level stop: decompression stop as requested by new active MB level, after an MB level reduction has taken place due to violation of level stop requirement.

ZH-L8 ADT: UWATEC's adaptive 8-tissue algorithm.

ZH-L8 ADT MB: UWATEC's adaptive 8-tissue algorithm with MB levels (added conservatism).

3.5.2 Display information

When diving with an MB level other than L0, Galileo still carries out all calculations relating to L0 in the background. To understand the relation between set MB level and the underlying L0 calculation and how the information appears on the display, we shall use the example of a dive with MB L3 set in the dive computer.

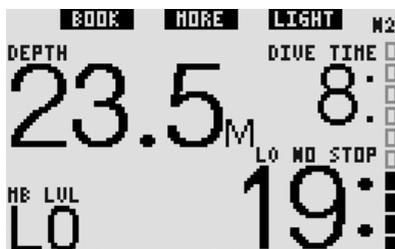
Situation	L3 information on display	L0 information in background	Display details
1	No-stop	No-stop	Display shows L3 no-stop time. L0 no-stop time can be called up by pressing MORE .
2	Level stop	No-stop	Display shows L3 level stop information. The L3 information is in black on white background because L0 is still in no-stop time. Stop is described as LEVEL STOP . L0 no-stop time can be called up by pressing MORE .
3	Level stop	Decompression	
3.1	Level stop is deeper than deco stop		Display shows L3 level stop information. The L3 information is in white on a black background because L0 is also in decompression. The stop is described as LEVEL STOP because the stop depth relates to the L3 level only. L0 decompression information can be called up by pressing MORE .
3.2	Level stop is at same depth as deco stop		Display shows L3 level stop information. The L3 information is in white on a black background because L0 is also in decompression. The stop is described as LEVEL+DECO STOP because the stop depth is the same for L3 level and for L0. The TAT (total ascent time) refers to L3 level stop, so as the DECO STOP obligation is met, the description of the stop depth changes from LEVEL+DECO STOP to LEVEL STOP only. L0 decompression information can be called up by pressing MORE .

Situation 2	Situation 3.1	Situation 3.2

3.5.3 Display of underlying L0 decompression information

During the dive, the information displayed is always relative to the active MB level. However, in the **CLASSIC**, **LIGHT** and **FULL** display, the underlying L0 data is available as one of the alternate information fields. When **pressing** the **MORE** button the appropriate number of times, the L0 information will be visible instead of the active MB level information for 5 seconds, after which it is replaced again by the information relative to the active MB level. While the L0 information is shown, the symbol **L0** precedes either the word **NO STOP** or **DECO STOP**. This allows you to be aware of what the maximum possible no-stop time is or what the mandatory decompression requirements are.

For **CLASSIC** and **LIGHT**, the underlying L0 information is shown in the sequence right after the active MB level and before the time of day. This is displayed for 5 seconds instead of the MB level no-stop or decompression information. After 5 seconds it is replaced again by the information relative to the active MB level.



For **FULL** lay-out, the underlying L0 information is shown immediately upon pressing **MORE**. This is displayed instead of the MB level no-stop or decompression information and remains there only for 5 seconds, after which it is replaced again by the information relative to the active MB level.



NOTE:

The nitrogen bar graph always references the underlying L0 calculation.

3.5.4 Cascading MB levels

When diving with an MB level, Galileo carries out all calculations relating to L0 and to all MB levels in between the currently active one and L0. This gives the diver the flexibility to start with a given MB level but to cascade down to a less conservative level during the dive: if you start the dive

at L4 but decide not to carry out all the required L4 stops, you can cascade down through L3, L2, L1 all the way to L0. Only decompression stops relating to L0 are mandatory and must be respected at all times, whereas the level stops calculated by the MB levels are recommended but not mandatory. Section 3.5.5 describes how to cascade to a lower level.

3.5.5 Level stop ignored/MB level reduced

If a level stop is required and you ascend 1.5m/5ft or more above it, Galileo will reduce your active MB level to the next one compatible with the current depth. When this happens, the new active MB level is permanently displayed on the screen. It is no longer possible to finish the dive with the MB level set at the beginning of the dive. When the level stop depth is the same as the deco stop depth, ascending 1.5m/5ft above it will cause Galileo to cascade down to L0.

At the end of the dive, for five minutes after reaching the surface, the active (reduced) MB level is shown on the display. After five minutes Galileo changes to surface mode and switches back to the MB level set prior to the dive, but the reduced MB level is recorded in the logbook.

3.6 Altitude and the decompression algorithm

Atmospheric pressure is a function of altitude and of weather conditions. This is an important aspect to consider for diving, because the atmospheric pressure surrounding you has an influence on ongassing and offgassing of nitrogen. Above a certain altitude, the decompression algorithm has to change in order to account for the effect of the change in atmospheric pressure.

Galileo divides the possible altitude range in 5 classes:

- class 0 (not indicated on the computer display): from sea level to approximately 1000m/3300ft (switch point at 905mbar);

- class 1: from approximately 1000m/3300ft to approximately 2000m/6600ft (switch point at 815mbar);
- class 2: from approximately 2000m/6600ft to approximately 3000m/10000ft (switch point at 725mbar);
- class 3: from approximately 3000m/10000ft to approximately 4000m/13300ft (switch point at 610mbar);
- class 4: above approximately 4000m/13300ft. In this altitude class Galileo functions in gauge mode only (automatic switch from computer mode).

The altitude classes are defined in terms of approximate elevations because the effect of weather conditions can make the switch point pressure occur at different levels.



- ▲ Switch point at 610 mbar / 8,85 psi
- ▲ Switch point at 725 mbar / 10,51 psi
- ▲ Switch point at 815 mbar / 11,82 psi
- ▲ Switch point at 905 mbar / 13,82 psi

Galileo deals with altitude automatically: it monitors the atmospheric pressure every 60 seconds, even when it is turned off, and if it detects a sufficient drop in pressure, it does the following:

- it switches on (if it was off);
- it indicates the new altitude range by means of black segments inside the stylized mountain and, if applicable, the prohibited altitude range;
- it indicates the desaturation time, which in this case is an adaptation time to the new ambient pressure. If a dive is started during this adaptation time, Galileo considers it a repetitive dive, since the body has residual nitrogen.



3.6.1 Prohibited altitude

Going to altitude, as much as flying after diving, exposes your body to a reduced ambient pressure. In a way similar to the no-fly time, Galileo advises you which altitude classes are safe to reach after a dive and which aren't. If you have to drive over a mountain pass to return home after a dive, it can be quite important to have this information.

The prohibited altitude classes are displayed by grey segments inside the stylized mountain. This can be combined with black segments indicating current altitude. In the example above, the diver is presently at altitude class 2 and should not reach altitudes of class 4.

Galileo has an altitude alarm: if you were to reach an altitude that according to Galileo is incompatible with your current residual nitrogen levels, it will warn you with an altitude alarm (see section 1.4 for more information).

3.6.2 Decompression dives in mountain lakes

In order to assure optimal decompression even at higher altitudes, the 3m/10ft decompression stage is divided into a 4m/13ft stage and a 2m/7ft stage in altitude ranges 1, 2 and 3.

If atmospheric pressure is below 610mbar (altitude higher than 4000m/13300ft), no decompression calculation is carried out by Galileo (automatic gauge mode). In addition, the dive planner is not available in this altitude class.

3.7 Gauge mode

When Galileo is set to gauge mode, it will only monitor depth, time and temperature, and will not carry out any decompression calculation. Maximum displayed dive time in gauge mode is 99 hours and 59 minutes. You can only switch to gauge mode if the computer is completely desaturated. All audible and visual alarms, other than the low battery alarm, are turned off.

WARNING

Dives in gauge mode are performed at your own risk. After a dive in gauge mode you must wait at least 48 hours before diving using a decompression computer.

When on the surface in gauge mode, Galileo will show neither the remaining desaturation time nor the CNS O₂% value. It will however display a surface interval up to 24 hours and a 48 hour no-fly time. This no-fly time is also the time during which you cannot switch back to computer mode.

The surface display changes as shown below:



During a dive in gauge mode, the following information is displayed:

- current depth
- dive time

- stopwatch
- maximum depth
- temperature
- time of day
- average depth
- in case of an ascent: ascent speed (in m/min or ft/min).



Upon **pressing** the left button (marked **SW**), a bookmark will be set while at the same time the stopwatch is reset.

Upon **pressing** the middle button (marked **AVG**), a bookmark will be set while at the same time the average depth is reset. Upon **pressing and holding** the middle button, the dive profile is displayed, followed by the pictures.

Upon **pressing and holding** the right button (marked **LIGHT**), the digital compass display is called up. In addition to the compass information, this display will also show the depth, the dive time and the stopwatch. The stopwatch can again be reset by pressing the left button.

In compass lay-out display, the middle button allows you to set a reference bearing for navigation purposes. A **press and hold** will erase the set bearing.

The display will return to the regular gauge mode display after either the auto-off time or after a **press and hold** of the right button.



3.8 Button function overview

	LEFT BUTTON		MIDDLE BUTTON		RIGHT BUTTON	
	Press	Press and hold	Press	Press and hold	Press	Press and hold
CLASSIC	Set bookmark and reset stopwatch	-	Access alternate field. In sequence: - O ₂ % - Stopwatch - (Active MB level if other than LO) - (Information @ MB LO) - Time of day - ppO ₂	Access alternate display. In sequence (press): - Dive profile (with ascent, dotted) - Individual compartment saturation - Picture 1 - Picture 2 - ...	Activate backlight	Access compass display
LIGHT	Set bookmark	-	Access alternate field. In sequence: - (Max depth) - O ₂ % - Temperature - (Active MB level if other than LO) - (Information @ MB LO) - Time of day - CNS O ₂ - Empty space	Access alternate display. In sequence (press): - Dive profile (with ascent, dotted) - Individual compartment saturation - Picture 1 - Picture 2 - ...	Activate backlight	Access compass display
FULL	Set bookmark and reset stopwatch	-	- (Information @ MB LO)	Access alternate display. In sequence (press): - Dive profile (with ascent, dotted) - Individual compartment saturation - Picture 1 - Picture 2 - ...	Activate backlight	Access compass display
COMPASS	Set bookmark and reset stopwatch	-	Set bearing	Erase set bearing	Activate backlight	Manual return to regular display
GAUGE	Set bookmark and reset stopwatch	-	Set bookmark and reset average depth	Access alternate display. In sequence: - Dive profile - Picture 1 - Picture 2 - ...	Activate backlight	Access compass display

4. GALILEO AND SMARTTRAK (PC INTERFACE)

4.1 Introduction to SmartTRAK

SmartTRAK is the software that allows Galileo to communicate with a Windows-based PC. For more information on other platforms (Macintosh, Palm, PocketPC) please visit www.scubapro-uwatec.com.

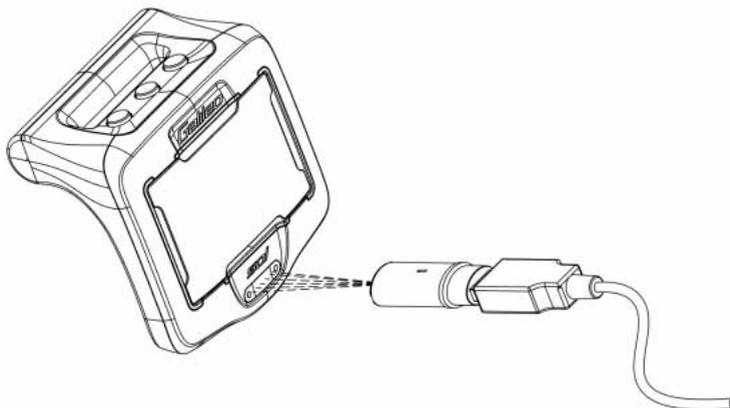
SmartTRAK serves five purposes:

- Changing settings: all the settings described in Chapter 2 can be set directly from the PC.
- Downloading dive profiles and organizing the logbook on the PC.
- Uploading pictures to Galileo.
- Uploading languages.
- Updating or upgrading the firmware on the computer.

In order to take advantage of any of these features, you need to establish an infrared communication between your PC and Galileo.

To start the communication:

- launch SmartTRAK on your PC.
- turn on Galileo.
- place the infrared interface in line of sight of the infrared window on Galileo.



Galileo will show the symbol  on the display once the communication is in place.

4.2 Changing settings

You can change and review all the settings described in Chapter 2 from the comfort of your PC. The PC software allows you to see the entire array of settings at once, instead of individually on Galileo, and to make changes more rapidly.

Click on the **DIVE COMPUTER SETTINGS** icon: the PC will read the settings as presently configured in Galileo and show them as depicted below.

When all desired changes are made, **press** the **WRITE** icon in the dive computer settings window to transfer the changes over to Galileo. Closing the window prior to clicking on the **WRITE** icon and waiting for the transfer process to be complete will result in no changes being saved.

Dive Computer Settings

Battery capacity high enough for diving.

Info

Computer ID: 5100004010 HW: 00 SW: 20

Amb. pressure: 987 mbar

Battery:

- High
- High
- Medium
- Low
- Vely low
- Inoperable

Personal statistic

# Dives:	Dive time:
3	3:03
Longest dive:	Deepest dive:
82 min	50.4 m

O2 settings | **Dive settings** | **Digital compass** | **Warnings settings** | **Clock settings** | **Other settings** | **Personalization**

Unit system:

m °C bar

R °F psi

Screen configuration:

 Rotate 180°

Language:

Owner information:

John Diver

Cert. Number: 12345678

First certified in 07/1975

Dive Ins.: 123456789AB

Cell: +1 619 555 1234

1166 Fesler St

El Cajon, CA 92020

USA

NOTE:
Please confirm each line with ENTER.
Avoid writing over a line.

Emergency information:

Allergic to penicillin!

Blood type A+

Emergency contact:
John Smith
+1 619 555 1234
Insurance Policy:
123 456 7690

NOTE:
Please confirm each line with ENTER.
Avoid writing over a line.

NOTE:

Resetting the desaturation, all-silent mode, ppO_2 max turned **OFF** can be changed also via SmartTRAK but you will be prompted to enter the safety code for each setting.

You can choose between transferring all dives or new dives only (default setting) from Galileo's memory. If you choose to transfer new dives only, SmartTRAK will only transfer dives that are more recent than the most recent dive already saved in the PC logbook.

Once the data is downloaded, a window will show you a summary table of all dives; for the selected dive, another window will show you its details. From these windows you can add and edit your dive information.

4.4 Uploading pictures

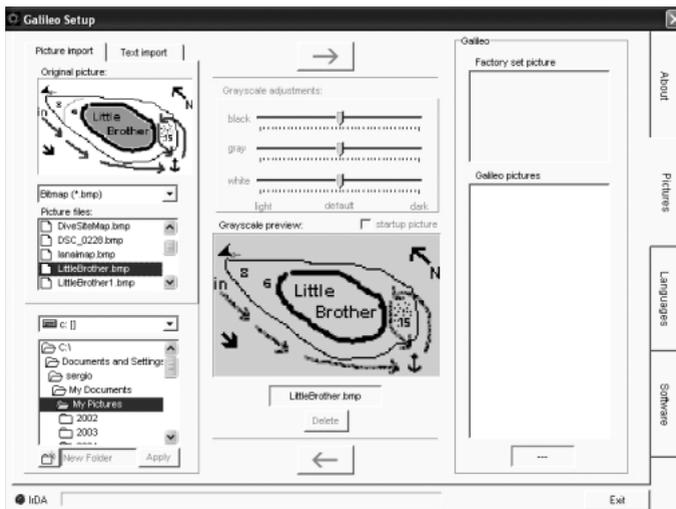
Galileo's memory allows you to store up to 100 grey-scale bitmap pictures which can be viewed on the surface or underwater as described in Chapters 2 and 3.

To handle pictures, you need to choose **GALILEO SETUP** under **OPTIONS**. This will bring up the Galileo Setup window, which has various tabs along the right edge. Click on the **PICTURES** tab and you will see a window similar to the one depicted below.

Pictures already stored in Galileo's memory will be shown to the very right end of your screen. Their sequence corresponds to the actual viewing sequence on Galileo's screen. The sequence can only be changed by deleting and reloading the pictures. To delete a picture, select it by clicking it and **press** the **DELETE** button under the preview.

To upload pictures to Galileo, use the dialog box to the left to browse your hard drive and locate the pictures of interest. After selecting a picture, SmartTRAK shows a grey scale preview of the same picture, as it will appear on Galileo. You can adjust the grey levels using the sliding bars above the preview, then click on the arrow on top to transfer the picture to Galileo.

If you wish to download pictures from Galileo to the PC, select a picture and click on the arrow underneath the preview window.

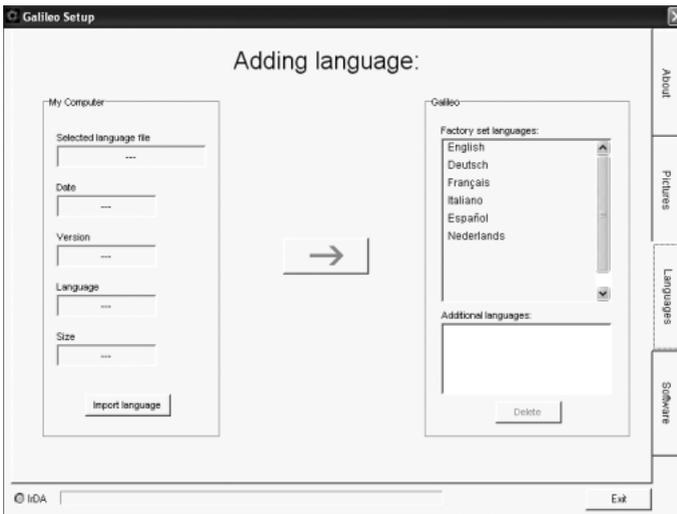


You can also import text to Galileo using the **TEXT IMPORT** function: for instance, load a few typical messages to communicate with your dive buddy, and when the need arises, bring up the message on the display and show it to him or her. Or you can write down a dive plan and then review it during the dive. The **TEXT IMPORT** function turns text that you write into the appropriate field using SmartTRAK into bitmap images which you can then upload to Galileo.

4.5 Uploading languages

All Galileo's menus and settings are displayed in full text in one of several languages which you can set as explained in section 2.9.2. Similarly, while diving, warnings and alarms are displayed in full text in the selected language.

Other languages are available at www.scubapro-uwatec.com for free download to Galileo. To install a new language onto Galileo, download the language from the SCUBAPRO UWATEC website to your PC. Using SmartTRAK, locate the language file on your hard drive, then import it by clicking on the **IMPORT** button and **press** the arrow to transfer it to Galileo. On the right side of the screen you will see the full list of languages installed on Galileo. You can remove a language by clicking on it and then pressing the **DELETE** button.



4.6 Updating or upgrading the firmware

Galileo features a reprogrammable microprocessor which allows you to keep your dive computer up to date with new UWATEC technologies. Please refer to the information provided at www.scubapro-uwatec.com in reference to updates or upgrades.

5. TAKING CARE OF GALILEO

5.1 Technical information

Operating altitude:

- with decompression – sea level to approximately 4000m/13300ft
- without decompression (gauge mode) – at any altitude

Max operating depth: 330.5m/1084ft; resolution is 0.1m until 99.9m and 1m at depth deeper than 100m. Resolution in ft is always 1ft. Accuracy is within 2% ±0.2m/1ft.

Decompression calculation range: 0.8m to 120m

Maximum environment pressure: 34bar

Digital compass:

- **resolution:** 1°
- **accuracy:** +/- 1° + 5% of tilt angle (example: at 50° tilt, accuracy is +/-3.5°)
- **tilt angle:** up to 80°
- **refresh rate:** 1s

Clock: quartz clock, time, date, dive time display up to 999 minutes

Oxygen concentration: adjustable between 21% and 100%

Operating temperature: -10°C to +50°C / 14°F to 122°F

Power supply: CR12600SE or CR2NP

Life of the battery: 3-5 years or 300-500 dives. Actual battery life depends on the number of dives per year, the length of each dive, the water temperature and the usage of digital compass and backlight.

5.2 Maintenance

Galileo is virtually maintenance free. All you need to do is rinse it carefully with fresh water after each dive and change the battery when needed. The depth accuracy should be verified every two years. To avoid possible problems with your Galileo, the following recommendations will help assure years of trouble free service:

- avoid dropping or jarring your Galileo
- do not expose Galileo to intense, direct sunlight
- do not store Galileo in a sealed container, always ensure free ventilation. If there are problems with the water contacts, use soapy water to clean Galileo and dry it thoroughly. The housing of Galileo can be treated with silicone grease, but do not apply silicone grease to the water contacts!
- Do not clean Galileo with liquids containing solvents.
- Check the battery capacity before each dive.
- If the battery warning appears, replace the battery.
- If any error message appears on the display, take Galileo back to an authorized SCUBAPRO UWATEC Dealer.

5.2.1 Replacing the battery in Galileo

WARNING

We recommend having the battery of Galileo replaced by an authorized SCUBAPRO UWATEC dealer. The change must be made with particular care in order to prevent water from seeping in. The warranty does not cover damages due to an improper placement of the battery.

Galileo stores the tissue saturation information in non-volatile memory, so the battery can be replaced at any time between dives without loss of information.

Procedure:

To replace the battery you need a coin or the dedicated tool that came with Galileo and a clean cloth.

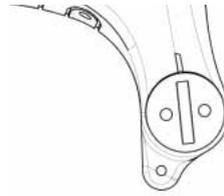
WARNING

- A leaking battery cap may lead to the destruction of Galileo by water seeping in or cause Galileo to switch off without prior notice.
- Always open the battery compartment in a dry and clean environment.
- Only open the battery compartment to replace the battery.

1. Dry Galileo with a soft towel.
2. Unscrew the battery cap using a coin or the dedicated tool.



3. Inspect the o-ring on the battery cap. If you see traces of seeping water, damages or defects on the o-ring, replace the o-ring with an original UWATEC replacement part (PN 06.202.693). The o-ring is provided with the UWATEC battery kit for Galileo (PN 06.202.872). When replacing the o-ring, make sure the new o-ring is in perfect condition and well lubricated, and that the o-ring, o-ring groove and sealing surfaces are free of dust and dirt.
4. Remove the old battery and dispose of it in an environmentally friendly way.
5. Check the polarity of the new battery. Galileo can be damaged if you do not insert the battery correctly. Insert the battery so that the + side is pointing out of the battery case.
6. Screw the battery cap back in place. Turn the cap until it is flush with the surface and the slot on the battery cap is aligned with the mark on the housing. Damage to Galileo due to improper placement of the battery cap is not covered by warranty.



7. Check Galileo by turning it on.

NOTE:

- After a dive, Galileo stores tissue saturation data once an hour while on the surface until it is completely desaturated. If you change the battery while Galileo has remaining desaturation time, the tissue data will not be lost, but Galileo will reference the last stored data set. As a consequence, the data displayed on the surface screen after the battery change (desaturation time, surface interval, no-fly time and CNS O₂) may be different from the values displayed just prior to the battery removal.
- After replacing the battery, you must set the date and time.

5.3 Warranty

Galileo has a two-year warranty covering defects in workmanship and functioning. The warranty only covers dive computers which have been bought from an authorized SCUBAPRO UWATEC Dealer. Repairs or replacements during the warranty period do not extend the warranty period itself. Excluded from warranty coverage are faults or defects due to:

- excessive wear and tear
- exterior influences, e.g. transport damage, damage due to bumping and hitting, influences of weather or other natural phenomena
- servicing, repairs or the opening of the dive computer by anybody not authorized to do so by the manufacturer
- pressure tests which do not take place in water
- diving accidents
- improper placement of the battery cap.

For European Union markets, the warranty of this product is governed by European legislation in force in each EU member state.

All warranty claims must be returned with dated proof-of-purchase to an Authorized SCUBAPRO UWATEC Dealer. Visit **www.scubapro-uwatec.com** for the Dealer nearest you.

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