AQUA⊘LUNG®

i200C
(P/N NS155111 - NS155116)

Dive Computer Owner's Manual

NOTICES

LIMITED TWO-YEAR WARRANTY

For warranty details and to register your product, refer to www.aqualung.com.

COPYRIGHT NOTICE

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TRADEMARK, TRADE NAME, AND SERVICE MARK NOTICE

Aqua Lung, the Aqua Lung logo, i200C, the i200C logo, Diver Replaceable Batteries, Graphic Diver Interface, Pre-Dive Planning Sequence (PDPS), SmartGlo, Set Point, Control Console, Turn Gas Alarm, and Aqua Lung computer Interface (ALI) are all registered and unregistered trade-marks, trade names, and service marks of Aqua Lung. All rights are reserved.

PATENT NOTICE

U.S. Patents have been issued to protect the following design feature, Free dive mode caculating nitrogen loading (U.S. Patent no. 8,600,701 & 9,254,900 & 9,733,227), Systems and Methods for Dive Computers with Remote Upload Capabilities (U.S. Patent no. 9,443,039).

DECOMPRESSION MODEL

The program within the i200C simulates the absorption of inert gases into the body by using a mathematical model. This model is merely a way to apply a limited set of data to a large range of experiences. The i200C dive computer model is based upon the latest research and experiments in decompression theory. Still, using the i200C, just as using any other No Decompression Tables, is no guarantee of avoiding decompression sickness, i.e. "the bends". Every diver's physiology is different, and can even vary from day to day. No machine can predict how your body will react to a particular dive profile.

DANGERS, WARNINGS, CAUTIONS, AND NOTES

Pay attention to the following symbols when they appear throughout this document. They denote important information and tips.

⚠ **DANGERS: are indicators of important information that if ignored <u>would</u> lead to severe injury or death.**

⚠ **WARNINGS: are indicators of important information that if ignored <u>could</u> lead to severe injury or death.**

⚠ **CAUTIONS: indicate information that will help you avoid faulty assembly, leading to an unsafe condition.**

📘 **NOTES: indicate tips and advice that can inform of features, aid assembly, or prevent damage to the product.**

RESPONSIBLE COMPUTER DIVING

- Always plan each dive.
- Always limit your dive to the level of your training and experience.
- Always make your deepest dive first.
- Always make the deepest part of every dive first.
- Check your computer often during the dive.
- Do a safety stop on every dive.
- Allow adequate surface interval between each dive.
- Allow adequate surface interval between each day of diving (12 Hours or until your computer clears).
- Read and understand this manual thoroughly <u>before</u> using the i200C.

⚠ WARNINGS:

- This manual is to be used in conjunction with the Aqua Lung Dive Computer Safety and Reference Manual, Doc. 12-7835. It contains general safety warnings and recommendations for use of this product.
- The i200C is intended for use by recreational divers who have successfully completed a internationally recognized course in scuba diving (for air use) and diving with enriched nitrogen-oxygen (nitrox) breathing gas mixtures (for nitrox use).
- It must not be used by untrained persons who may not have knowledge of the potential risks and hazards of scuba diving and diving with enriched nitrogen-oxygen (nitrox) mixtures.
- You must obtain scuba certification in diving with enriched nitrogen-oxygen mixtures (nitrox) before using the i200C for nitrox diving.
- Before using this product for military or commercial applications, read the recommendations, limitations, and warnings for such use. They can be found at http://www.aqualung.com/militaryandprofessional.
- As with all underwater life support equipment, improper use or misuse of this product can cause serious injury or death.
- Never participate in sharing or swapping of a dive computer.
- Conduct your dives in such a manner so as to insure that you continuously check the computer's proper function.
- Read and understand this owner's manual completely before diving with the i200C.
- If you do not fully understand how to use this dive computer or if you have any questions, you should seek instruction in its use from your authorized Aqua Lung dealer before you utilize this product.
- If your i200C stops working for any reason while operating, it is important that you have anticipated this possibility and are prepared for it. This is an important reason for not pushing the tables, oxygen exposure limits, or entering decompression without proper training. If you dive in situations where your trip would be ruined or your safety would be jeopardized by losing the use of your i200C, a backup instrument system is highly recommended.
- Each numeric and graphic display represents a unique piece of information. It is imperative that you understand the formats, ranges, and values of the information represented to avoid any possible misunderstanding that could result in error.
- Remember that technology is no substitute for common sense. The dive computer only provides the person using it with data, not the knowledge to use it. Remember also that the dive computer does not actually measure and test the composition of your body tissue and blood. Using an Aqua Lung dive computer, just as using any other Decompression Tables, is no guarantee of avoiding decompression sickness. Every diver's physiology is different and can even vary from day to day. No machine can predict how your body will react to a particular dive profile.
- Diving at high altitude requires special knowledge of the variations imposed upon divers, their activities, and their equipment by the decrease in atmospheric pressures. Aqua Lung recommends completion of a specialized altitude training course by a recognized training agency prior to diving in high altitude lakes or rivers.
- Repetitive dives in a series should only be conducted at the same altitude as that of the first dive of that series. Repetitive dives made at a different altitude will result in an error equal to the difference in barometric pressure, and possibly a false dive mode with erroneous data.
- If the i200C is activated at an elevation higher than 4,270 m (14,000 ft), it will immediately shutdown.
- Decompression diving or diving deeper than 39 m (130 ft) will greatly increase your risk of decompression sickness. This should only be attempted by those properly trained and certified in decompression diving. It is important to completely understand the features, functions, and specifically the limitations of the i200C. Based on this the diver must decide if the i200C is suitable for the dive activities and dive profiles being planned.
- Using an i200C is no guarantee of avoiding decompression sickness.
- The i200C enters Violation Mode when a situation exceeds its capacity to predict an ascent procedure. These dives represent gross excursions into decompression that are beyond the boundaries and spirit of the i200C's design. If you are following these dive profiles, Aqua Lung advises that you should not use an i200C.

· If you exceed certain limits, the i200C will not be able to help you get safely back to the surface. These situations exceed tested limits and can result in loss of some functions for 24 hours after the dive in which a violation occurred.

EUROPEAN UNION REGULATIONS:

● EC type examination conducted by: SGS United Kingdom Ltd, Weston - super - Mare, BS22 6WA, UK, Notified Body No. 0120.

● HP gas pressure sensing components are in conformity with EN250:2014 - Respiratory equipment - open-circuit self-contained compressed air diving apparatus - requirements, testing and marking – clause 6.11.1 Pressure Indicator. EN 250:2014 is the standard describing certain minimum performance requirements for SCUBA regulators to be used with air only sold in EU. EN250:2014 testing is performed to a maximum depth of 50 M (165 FSW). A component of self-contained breathing apparatus as defined by EN250:2014 is: Pressure Indicator, for use with air only. Products marked EN250 are intended for air use only. Products marked EN 13949 are intended for use with gases containing more than 22% oxygen and must not be used for air.

● Depth and time measurements are in conformity with EN13319:2000 - Diving Accessories - depth gauges and combined depth and time measuring devices

● The air used must comply with EN 12021. EN 12021 is a standard that specifies the allowable contaminates and component gasses that make up compressed air. This is the equivalent of the USA Compressed Gas Association's Grade E air. Both standards allow very small amounts of contaminants that are not harmful to breathe, but can cause a problem if present in systems using gases with a high percentage of oxygen.

● Electronic instruments are in compliance with Directive 2004/108/EC Electromagnetic compatibility (EMC) EN 61000 part 6-1: Generic Standards - immunity for residential, commercial and light-industrial environments

● In accordance with EU regulation 2016/425, may it be known that Pelagic as manufacturer of this product issues a Declaration of Conformities, available here http://www.pelagicnet.com/dc.

⚠ CAUTION:

· Transmitters and gas integrated dive computers marked EN250 are certified for use with air only. Transmitters and gas integrated dive computers marked EN13949 are certified for use with nitrox only.

CONTENTS

GETTING STARTED

BASICS
Welcome to your new i200C. The i200C is an easy to use dive computer utilizing a four button interface. Divers may choose between four modes of functionality consisting of Watch, Dive, Gauge, and Free Mode. Though the i200C is easy to use, you will get the most out of your new i200C if you take some time to familiarize yourself with its displays and operation. Information has been organized into easy to follow sections to aid you in learning all you need to know. There is also a glossary at the end of this guide for any terms that may sound unfamiliar.

INITIAL ACTIVATION
i200C Dive Computers are placed in a Deep Sleep mode prior to being shipped from the factory. The intent is to extend storage life of the Battery for up to 7 years, before the unit is initially placed into service.

In this mode, Date and Time are updated as they normally would be. However, they are not displayed. Upon waking the i200C up, the correct Date and USA Pacific Time will be displayed and it will be ready to operate with full functions.

To wake the i200C up from Deep Sleep mode, simultaneously depress the ◎ (Select) and ▽ (Down) buttons for 3 seconds until the display comes on displaying the Watch Main Time screen, then release them.

▤ **NOTE: Once the i200C is brought out of the Deep Sleep mode, it can only be placed back into it by the factory.**

STANDBY (POWER SAVING) MODE
The i200C shall enter Standby mode 10 minutes after Dive, Gauge, or Free Surface Modes has been activated (or 10 minutes after the post dive transition period has ended) and no button presses or dives have been initiated.

▤ **NOTE: Bluetooth function shuts down during Standby Mode to save battery life.**

DISPLAY ICONS
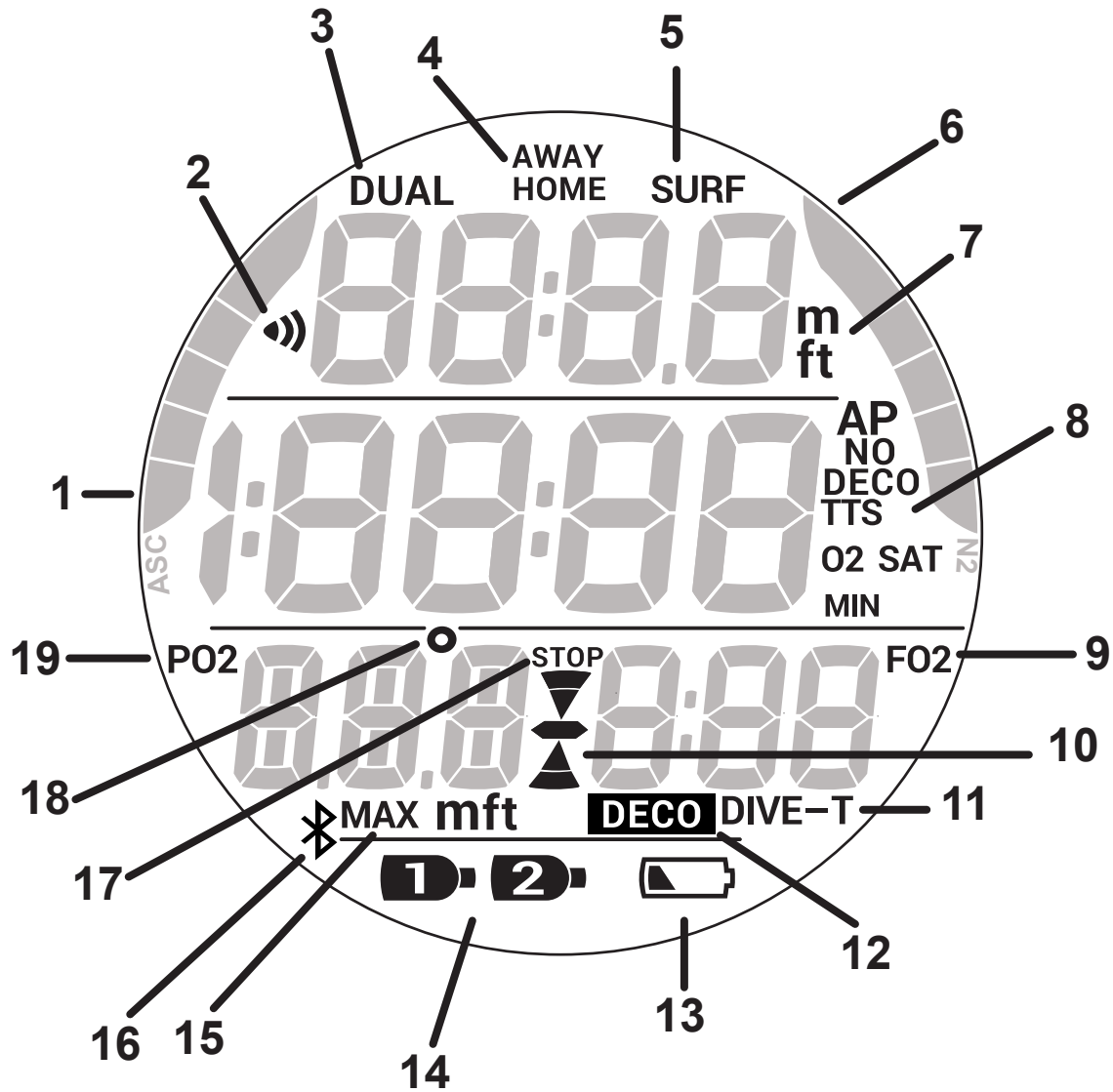
1	Ascent Rate	11	Dive Time or #
2	Daily Alarm Set	12	Decompression
3	Dual Time	13	Low Battery
4	Time Zone ID	14	Gas #
5	Surface	15	Value is Max Depth
6	Nitrogen Loading Bar Graph	16	Bluetooth
7	Depth ID (units)	17	Stop Message
8	Time ID	18	Temperature
9	Fraction of Oxygen	19	Partial Pressure of Oxygen
10	Descend, Ascend, or Stop		
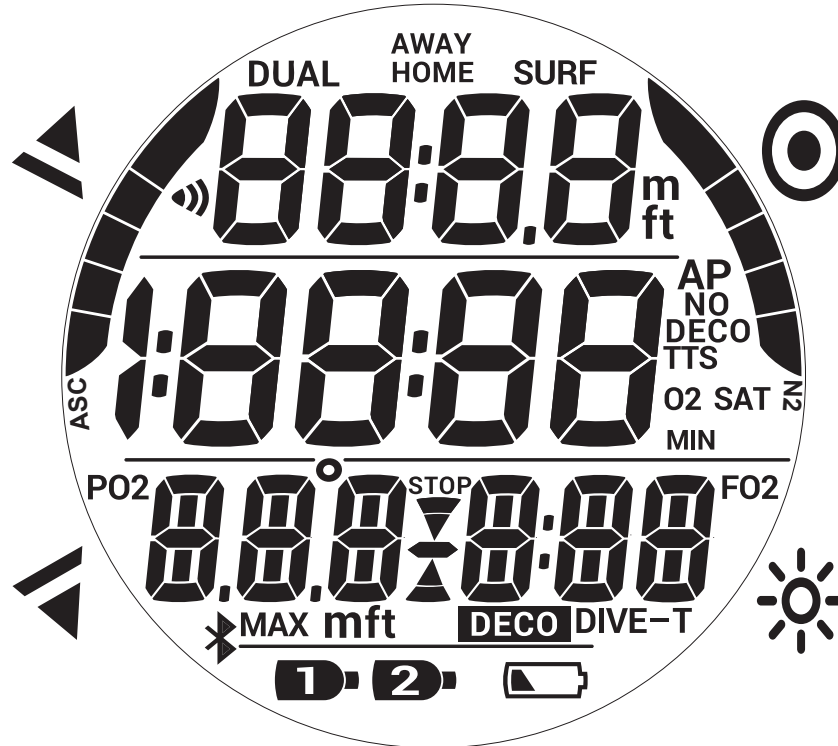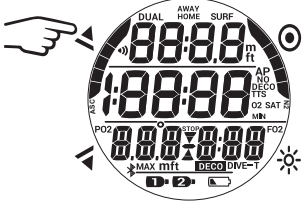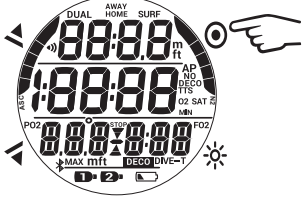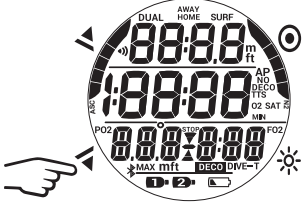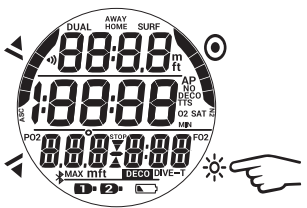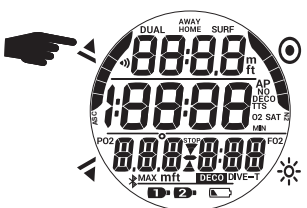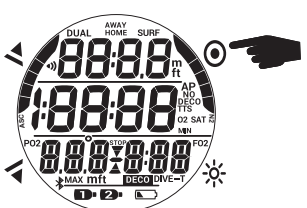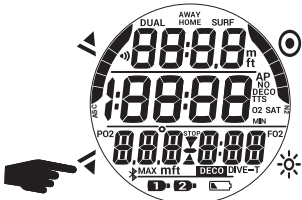
BUTTONS

The i200C utilizes 4 control buttons called the ▽ (Down), △ (UP), ◎ (Select), and ☼ (light) buttons. They allow you to select mode options and access specific information. They are also used to enter settings, activate the backlight, and acknowledge the audible alarm.

Pressing different combinations of these buttons will navigate through different menus and options of the i200C. The symbols in the table below will illustrate how to proceed through the menus.

SYMBOL	MEANING
☝	PRESS BUTTON LESS THAN 2 SECONDS
☝	HOLD BUTTON GREATER THAN 2 SECONDS

BUTTON FUNCTIONS

ACTION	FUNCTION
	• to move upwards through menu selections • to increase a setting • to toggle a setting • to access Alt screens
	• to select/save an option or setting • to enter a menu • to access Last Dive screens
	• to move downwards through menu selections • to decrease a setting • to toggle a setting • to access a main menu from a Main screen
	• to activate the backlight
	• to switch between Watch Mode and the active diving mode, while on the Main screen • to scroll or increase a setting value at a faster rate • to reset chronograph (Watch Mode)
	• to exit or step back to the previous screen, setting, or exit out of the current menu

ACTION	FUNCTION
	• **to switch between Watch Mode and the active diving mode, while on the Main screen** • **to exit a menu directly to the Main screen**

WATCH MODE

WATCH MAIN SCREEN

The Watch Main screen is the default screen of the i200C. The i200C allows you to choose between displaying one or two time zones. This is useful when wearing the i200C as your primary timepiece while travelling.

NOTE: The terms HOME and AWAY are intended to represent two different time zones, your local and destination time zones respectively. Either time can be set as the Default Time. If DUAL time is set ON, the time zone that is not set as the Default Time will display in the top section of the screen.

WATCH MAIN
(Dual Time OFF)

Daily Alarm set on

P=P.M., A=A.M.

Time

Day

WATCH MAIN
(Dual Time ON)

DUAL Time is on
(This is the secondary time zone, AWAY or HOME.)

Default Time selected is AWAY
(AWAY = alt time zone)

Default Time

back to
Main
ALT

to
Computer
Mode

CDT
CHRONOGRAPH
DAILY ALARM
SET TIME
DONE (EXIT)

acknowledge
alarm

backlight

to select an option   exit menu

to
Computer
Mode
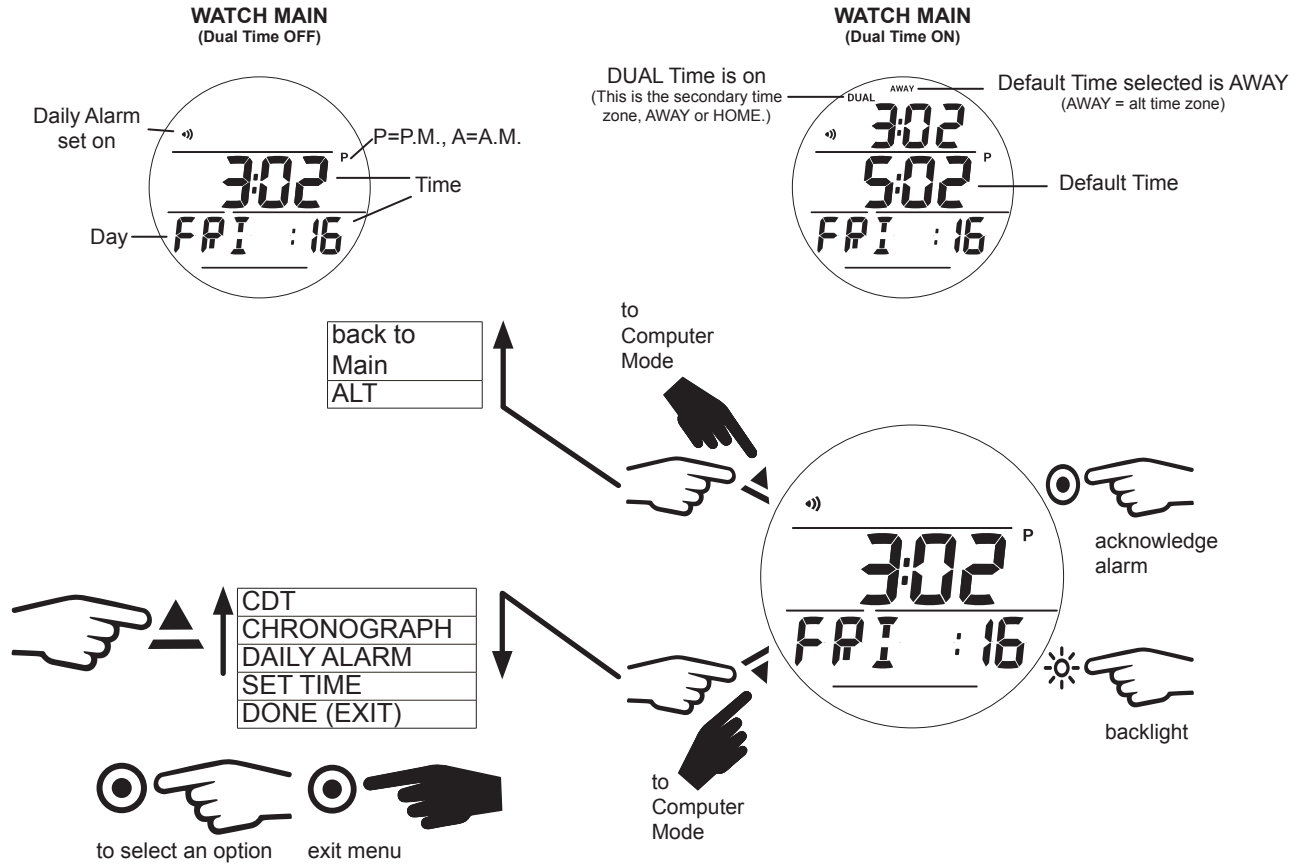
ALT

ALT displays the date, temperature, and elevation.

date

temperature

elevation
EL2 - EL7, blank if sea level
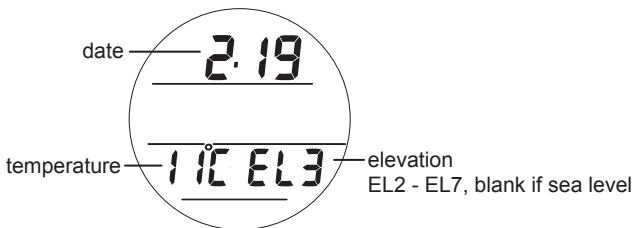
WATCH MAIN MENU

CDT (Countdown Timer)

This feature allows you to program a countdown timer with audible alarm. The initial options are OFF or SET. To set the timer you must save an hour value then the minute value. You may choose a value between 0:01 and 23:59. Once a countdown time is set, the ON selection becomes available in Set CDT screen . If On is selected, the CDT will run in the background until it counts down to 0:00, or it is set OFF. When a set Countdown time reaches 0:00, the Audible Alarm will sound. During which time the graphic CDT will flash on the Watch Main screen.

📘 **NOTE: Switching to Dive, Gauge, Free modes, or initiating a dive will terminate the CDT and revert the CDT setting to OFF.**

CDT LEAD-IN

to Done Screen

access CDT status

to Chronograph

CDT STATUS

toggle setting

to select

toggle setting

OFF, ON, or SET

SET CDT

increase value

to save hour/min

hour:min

decrease value

WATCH MAIN
(during CDT Alarm)

flashing
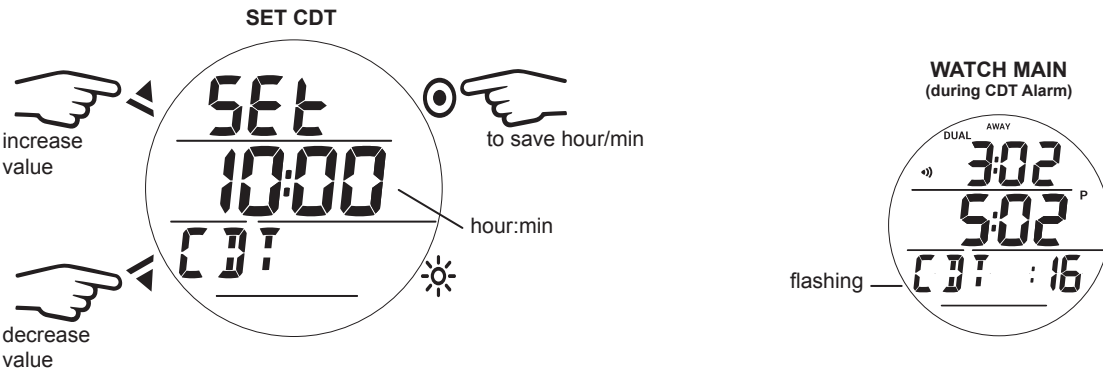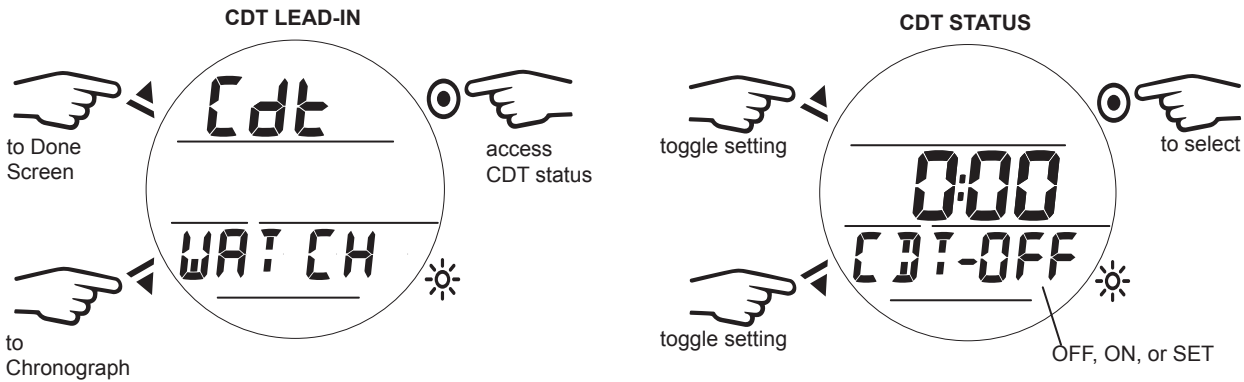
CHRONOGRAPH

The chronograph has a 9 lap memory. After 9, subsequent laps will be recorded and the earliest lap discarded. If the Chrono continues to run and reaches 9:59:59.99, it will stop and record that as a Lap. Subsequent presses of SELECT then have no effect.

CHRONOGRAPH LEAD-IN

to CDT

access Chronograph status

to Daily Alarm

CHRONOGRAPH STATUS
(< 1 second)

reset

stop timer, recall laps 1 - 9

start timer

centiseconds

hr:min:sec
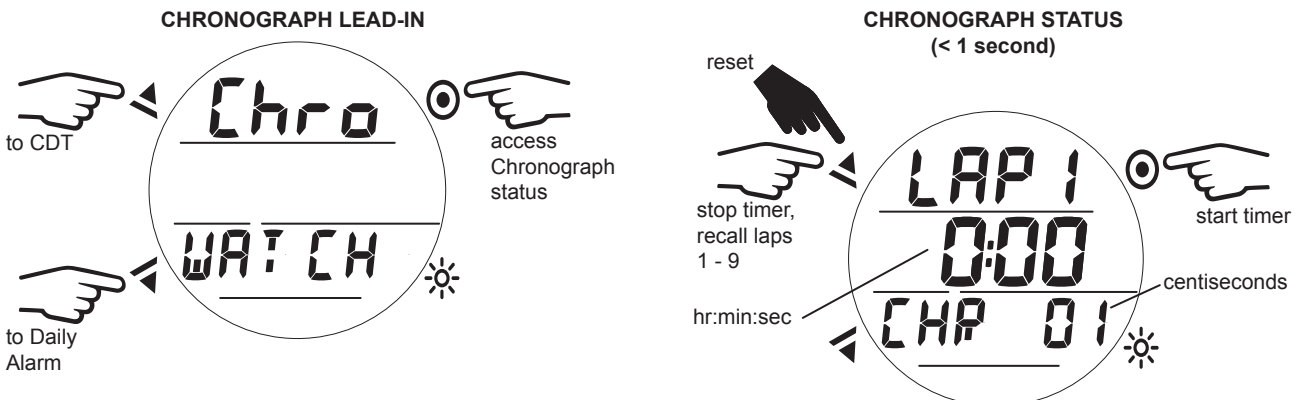
CHRONOGRAPH STATUS
(≥ 5 seconds)

reset timer

exit to
Watch Main

lap # (1-9)

after 4.99 seconds,
centiseconds
display as - -

📘 **NOTE: If the Chrono continues to run and reaches 9:59:59.99, it will stop and record that as a Lap. Subsequent presses of ◎ (Select), then have no effect.**

📘 **NOTE: Once the Chronograph has been set and started, it will remain on and displayed (or continue to run in the background) while on the surface until reset by the user. Upon descending to 1.5 M/5 FT (i.e., entry into a Dive, Gauge, or Free Mode dive), operation will be terminated and the counter will reset to 0:00:00.00 (hr:min:sec.centisecond).**

DAILY ALARM

When set ON, the Daily Alarm, that runs in the background, will sound the audible alarm at the time set every day when that time equals the Watch Default Time selected. The Audible will not sound while operating in dive computer modes. Operation reverts back to Watch Main after selection of ON or OFF options.

DAILY ALARM LEAD-IN

to
Chrono

to Set
Time

access
Daily Alarm
status

DAILY ALARM STATUS

toggle setting

toggle setting

to select

OFF, ON, or SET

SET DAILY ALARM

increase
value

decrease
value

to save hour/min

hour:min
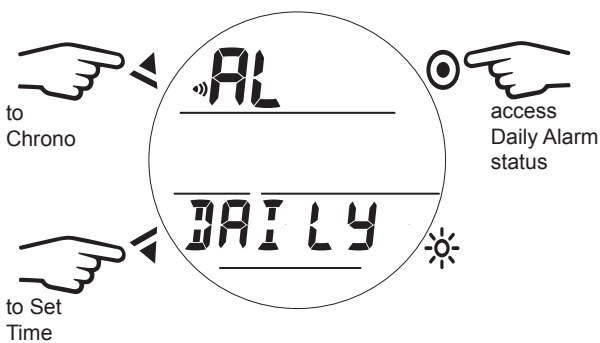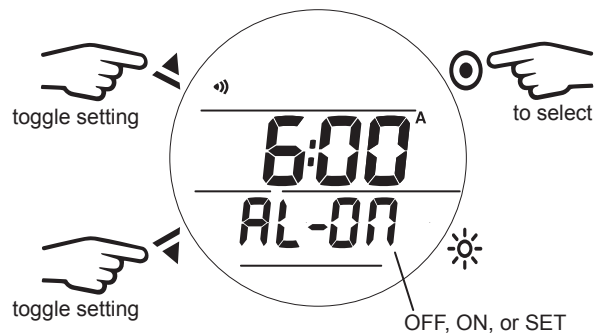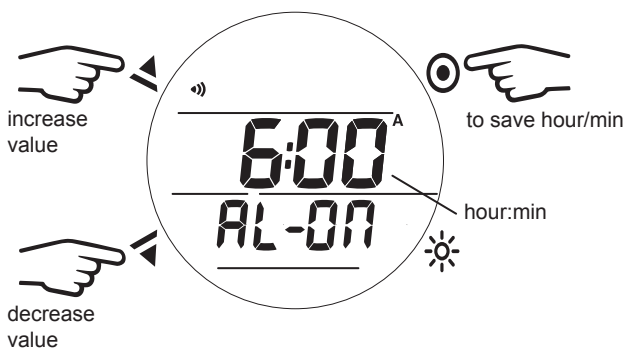
SET TIME MENU

Selecting Set Time accesses a sub menu. Within this menu you can set the time settings: Date Format, Hour Format, Default Time, Set Differential Time, Time of Day, Date, and Dual Time.

to Daily Alarm

access Set Time Menu

to Done Screen
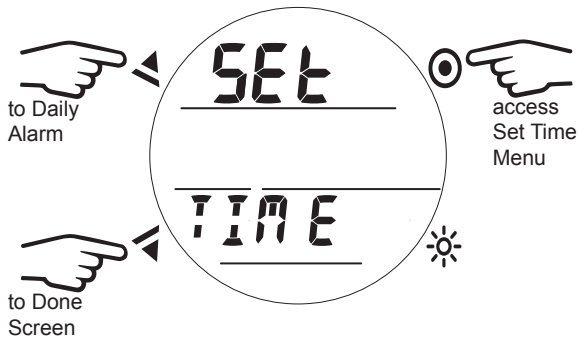
1. Date Format

Choose your preferred date format.

toggle setting

to select

toggle setting

M - D = Month.Day
D - M = Day.Month
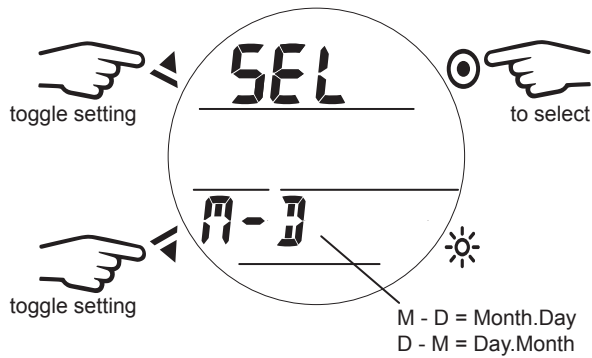
2. Hour Format

Choose your preferred hour format.

toggle setting

to select

toggle setting

12 or 24
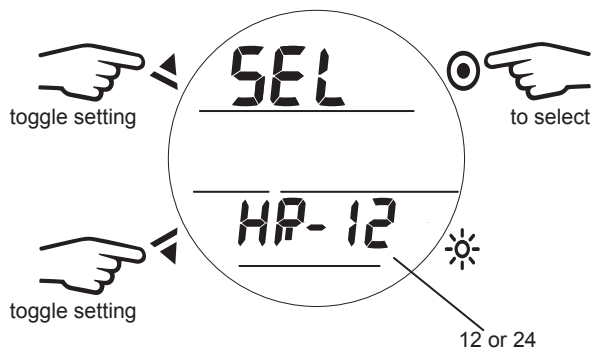
3. Default Time

This setting allows you to choose the time HOME or AWAY that displays as the default on the Watch Main.

toggle setting

to select

toggle setting
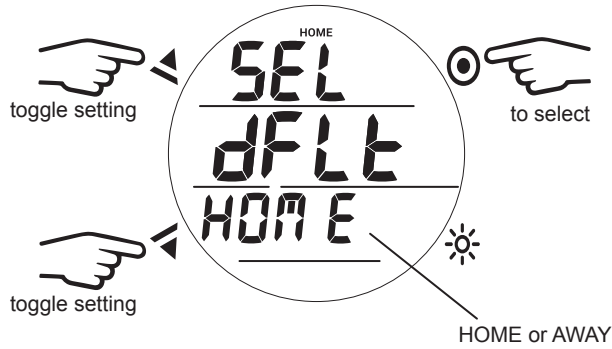
HOME or AWAY

4. Set Differential Time

Differential Time allows you to set another time zone, other than HOME time, that is referred to as AWAY Time.

increase value

to select

decrease value

00, 15, 30, or 45

+ or -

0 - 23 hours
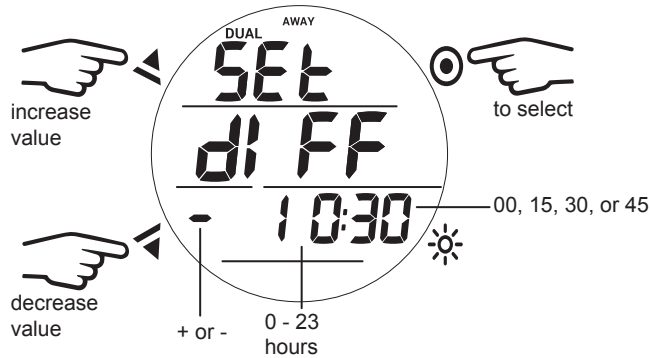
5. Time Of Day

Set the Default (Home or Away) time. Set hours then minutes.

increase value

to save hour/min

decrease value

hour:min

current default time zone HOME or AWAY
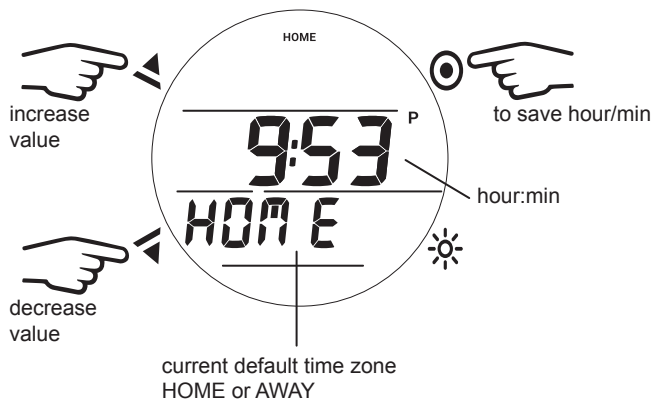
6. Date

Set the year, month, and day in order. The corresponding digit will flash, allowing it to be set.

current default time zone
HOME or AWAY

increase
value

to save
year, month;
day

decrease
value
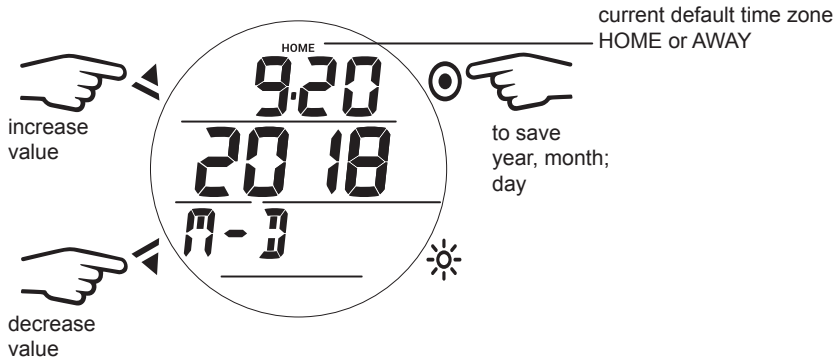
7. Dual Time

This setting allows you to choose whether or not to show dual time zones, both HOME and AWAY, on the Watch Main screen. If you select yes, the secondary time reading will display at the top on the Watch Main screen.

NOTE: If the Set Dual Time in the Set Time menu is set to OFF (00 hour difference), the secondary time will not be displayed on the Watch Main screen.

or OFF

toggle setting

access
show dual

toggle setting
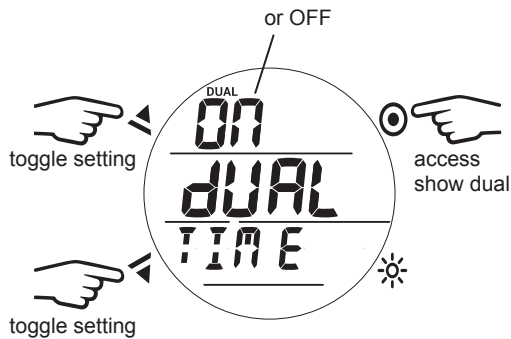
DONE SCREEN (WATCH MAIN MENU)

The Done Screen is a gateway to exit the Watch Main Menu and return to the Main Menu.

to Set
Mode

return to Watch
Main

to Set Gas
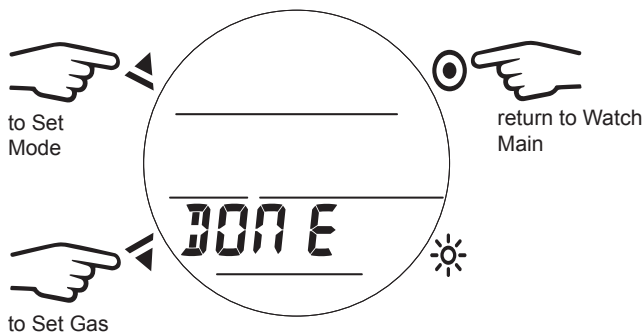
DIVE FEATURES

DTR (DIVE TIME REMAINING)

The i200C constantly monitors No Decompression status and O2 Accumulation, and will display whichever time is the least amount available as DTR on the No Decompression Dive Main screen. The Time being displayed will be identified by the NO DECO min (no decompression time) or O2 min icons.

NO DECOMPRESSION

No Decompression is the maximum amount of time that you can stay at your present depth before entering decompression. It is calculated based on the amount of nitrogen absorbed by hypothetical tissue compartments. The rates each of these compartments absorb and release nitrogen is mathematically modeled and compared against a maximum allowable nitrogen level.

Whichever compartment is closest to this maximum level is the controlling compartment for that depth. Its resulting value NO DECO (no decompression) will be displayed. It will also be displayed graphically as the N2 Bar Graph, see Bar Graphs below.

As you ascend, the N2 Bar Graph segments will recede as control shifts to slower compartments. This is a feature of the decompression model that is the basis for multilevel diving, one of the most important advantages that Aqua Lung dive computers offer.

DTR is
No Decompression
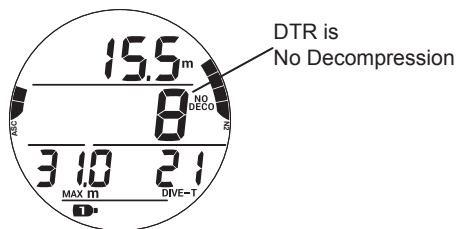
O2 MIN (OXYGEN TIME REMAINING)

When set for nitrox operation, O2 SAT (Oxygen Saturation) during a dive is displayed on an ALT screen as a percentage of allowed saturation identified by the O2 SAT icon. The limit for O2 SAT (100%) is set at 300 OTU (Oxygen Tolerance Units) per dive or 24 hour period. See the chart at the back of this manual for specific times and allowances. O2 SAT and O2 min values are inversely related; as the O2 SAT value increases the O2 min value decreases.

When the O2 min value becomes less than the No Decompression calculations for the dive, DTR (Dive Time Remaining) will be controlled by O2 SAT and the O2 min value will be displayed as the DTR on the Dive Main screen, identified by the O2 min icon.

DIVE ALT 3

% O$_2$ Saturation

DIVE MAIN

DTR is O2 MIN
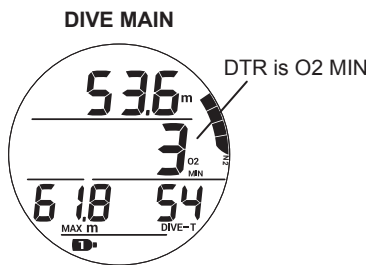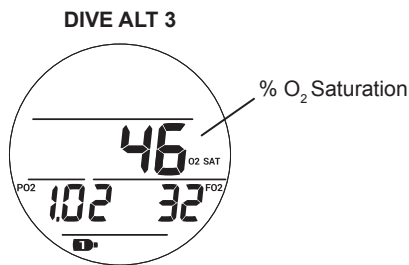
BAR GRAPHS

The i200C features two specific bar graphs.
1. The one on the left represents ascent rate. It is referred to as the ASC Bar Graph.
2. The one on the right represents nitrogen loading. It is referred to as the N2BG (N2 Bar Graph).

Ascent Rate ———— | ———— Nitrogen Loading
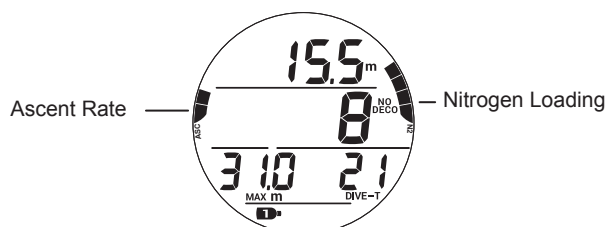
ASC BAR GRAPH

The ASC Bar Graph provides a visual representation of ascent speed (i.e., an ascent speedometer). When the ascent is faster than the recommended 9 mpm (30 fpm), all segments flash until the ascent is slowed.

# OF SEGMENTS	ASCENT RATE, MPM (FPM)
0	0 - 3 (0 - 10)
1	3.1 - 4.5 (11 - 15)
2	4.6 - 6 (16 - 20)
3	6.1 - 7.5 (21 - 25)
4	7.6 - 9 (26 - 30)
5	> 9 (> 30)

ASC ALARM TRIGGERED

flashing —
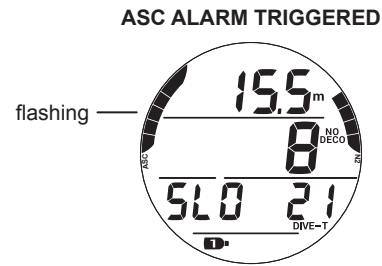
N2BG (NITROGEN BAR GRAPH)

The N2BG represents your relative No Decompression or Decompression status. The first four segments represent No Decompression status and the fifth indicates a Decompression condition. As your Depth and Elapsed Dive Time increase segments are added. As you ascend segments recede, indicating that additional No Decompression time is available. The i200C monitors multiple different nitrogen compartments simultaneously and the N2BG displays the one that is in control of your dive at any given time.

ALGORITHM

The i200C utilizes the Z+ algorithm to calculate nitrogen tissue loading. Performance is based on Bühlmann ZHL-16C algorithm model. To create even greater margins of safety with respect to decompression, a Conservative Factor as well as No Decompression Deep and Safety Stops can be included for No Decompression dives.

CONSERVATIVE FACTOR

When the CF is set On, the dive time remaining, No Decompression/O2 MIN, which are based on the algorithm and used for N2/O2 calculations and displays relating to Plan Mode, will be reduced to the values available at the altitude level that is 3,000 ft (915 m) higher than the actual altitude at activation. Refer to the charts in the back of this manual for dive times.

DS (DEEP STOP)

When the DS selection is set ON, it will trigger after descending deeper than 24 m (80 ft). The i200C then calculates (continually updating) a Stop Depth equal to ½ the Max Depth.

📘 **NOTE: The DS feature only works in DIVE Mode while within No Decompression times.**

• While 3 m (10 ft) deeper than the calculated DS, you will be able to access a DS Preview screen that will display the current calculated Deep Stop Depth/Time.

• Upon initial ascent to within 3 m (10 ft) below the calculated Stop Depth, a DS screen displaying a Stop Depth at ½ the Max Depth will appear with a countdown timer beginning at 2:00 (min:sec) and counting down to 0:00. If you descend 3 m (10 ft) below, or ascend 3 m (10 ft) above, the calculated Stop Depth for 10 seconds during the countdown, the No Decompression Main will replace the DS Main display and the DS feature will be disabled for the remainder of that dive. There is no Penalty if the DS is ignored.

• In the event that you enter Decompression, exceed 57 m (190 ft), or a High O2 SAT (Oxygen Saturation) condition, ≥ 80%, occurs, the DS will be disabled for the remainder of that dive.

• The DS is disabled during a High PO_2 Alarm condition, ≥ set point.

SAFETY STOP

Upon ascent to within 1.5 m (5 ft) deeper than the Safety Stop depth set for 1 second on a No Decompression dive in which Depth exceeded 9 m (30 ft) for 1 second, a beep will sound and a Safety Stop at the depth set will appear on the Dive Main display with a countdown beginning at the Safety Stop time set and counting down to 0:00.

• If the Safety Stop was set for OFF, the display will not appear.

• In the event that you descend 3 m (10 ft) deeper than the Stop Depth for 10 seconds during the countdown, or the countdown reaches 0:00, the No Decompression Main screen will replace the Safety Stop Main screen which will reappear upon ascent to within 1.5 m (5 ft) deeper than the Safety Stop depth set for 1 second.

• In the event that you enter Decompression during the dive, complete the Decompression obligation, then descend below 9 m (30 ft); the Safety Stop Main will appear again upon ascent to within 1.5 m (5 ft) deeper than the Safety Stop depth set for 1 second.

• If the diver ascends to within 0.91 m (3 ft) from the surface for 10 seconds, the Safety Stop is to be canceled.

• There is no penalty if you surface prior to completing the SS or choose to ignore it.

LOW BATTERY WHILE ON THE SURFACE

Warning Level
• The i200C functions continue but the backlight is disabled.
• The Battery icon appears solid.
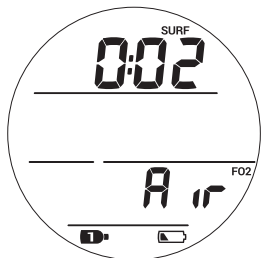
Alarm Level
• If in Dive Computer mode, the battery icon flashes for 5 seconds and operation reverts to Watch Time with the icon flashing until the Battery is changed or voltage cannot sustain operation.

⚠ **WARNING: Change the battery before diving if your i200C indicates the Battery Low Warning or Alarm.**

flashing
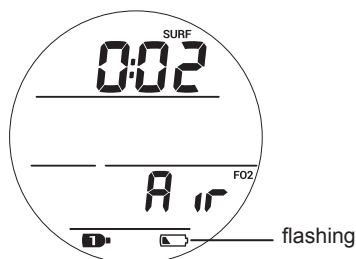
LOW BATTERY DURING A DIVE
Warning Level
• The i200C functions continue but the backlight is disabled.
• The battery icon appears solid upon entry into Surface Mode.

Alarm Level
• The i200C functions continue but the backlight is disabled.
• Upon entry into Surface Mode, the Battery icon (shell only with no inner bar) flashes then operation reverts to Watch Time.

AUDIBLE/VISUAL ALARM

While operating in Dive or Gauge Mode, the audible alarm will emit 1 beep per second for 10 seconds when alarms strike, unless it is set to Off. During that time, the audible alarm can be acknowledged and silenced by pressing the SELECT button.

An LED warning light, on the side of the housing, is synchronized with the audible alarm and flashes as the audible alarm sounds. It will turn off when the alarm is silenced. The audible and LED alarms will not be active if the audible alarm is set to OFF (a Set Alarms setting).

Free Dive Modes have their own alarms which emit multiple beeps multiple times which cannot be acknowledged or set to OFF.

Events that emit (10) beeps >> each sound for ½ sec with ½ sec silence between beeps:
• Watch Daily Alarm.
• Watch CDT Alarm.
• DIVE, GAUGE - Ascent Rate too fast.
• DIVE, GAUGE - Depth Alarm.
• DIVE, GAUGE - Elapsed Dive Time Alarm.
• DIVE - Dive Time Remaining Alarm.
• DIVE - N2 Bar Graph Alarm.
• DIVE - entry into Decompression.
• DIVE - Conditional Violation.
• DIVE - Delayed Violations 1, 2.
• DIVE, GAUGE - Delayed Violation 3.
• DIVE, GAUGE - entry into Violation Gauge Mode.
• DIVE - PO2 Alarm.
• DIVE - O2 Warning and Alarm.
• DIVE - Gas Switch Alarm.

Events that emit (3) short beeps:
• FREE - CDT Alarm.
• FREE - N2 Bar Graph Alarm.
• FREE - Violation, entry into Decompression.
• FREE - DA1 to DA3 Alarms.

DIVE SURFACE MODE

ON THE SURFACE BEFORE A DIVE

The Dive Main screen will display the SURF (Surface Time) and the selected FO_2 of the breathing gas. The surface time displayed is the time since activation or the surface interval after a dive.

| DIVE MAIN | DIVE MAIN | STANDBY MODE | STANDBY MODE |
| (before a dive) | (>10 minutes after a dive) | (No Previous Dive) | (Post Dive*) |

surface interval (hr:min)

SURF
0:25

32 FO2

gas # — gas mix

SURF
0:12

32 FO2

residual nitrogen

* — Bluetooth ON

SURF
0:14

FLY
23:50
SAT 9:59

back to Main
FLY/DESAT
ALT 2
ALT 1

to Watch Mode

back to Main
LAST DIVE 3*
LAST DIVE 2*
LAST DIVE 1

SURF
0:25

32 FO2

PLAN
LOG
SET MENU
DC INFO
DONE (EXIT)

to select an option

exit menu

to Watch Mode

backlight

*Bypass Last Dive 2 and 3 screens if no dive yet.

ALTERNATE SCREENS

ALT 1

The ALT 1 screen displays time of day, temperature, and current elevation readings.

1:46 P — Watch Default Time

temperature — 22°C EL2 — elevation
(EL2 - EL7, blank if sea level)
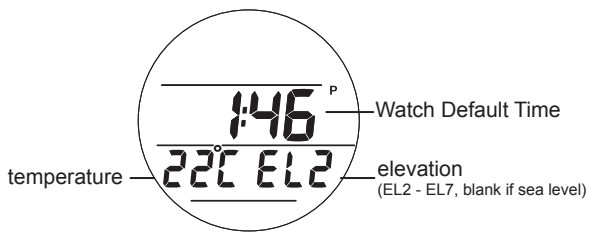
ALT 2

The ALT 2 screen displays only after a nitrox dive. It displays the current oxygen saturation level, PO2 Alarm setting, and the current gas mix.

36 O2 SAT — O_2 Saturation

PO_2 Alarm setting — PO2 1.40 32 FO2 — 32% O_2
MAX

Gas # —
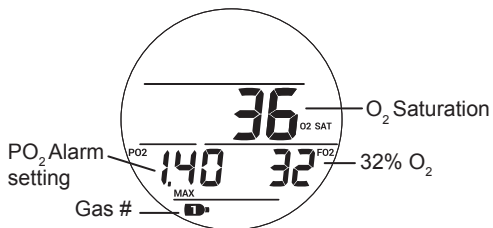
FLY/DESAT

The FLY/DESAT screen displays the Time to Fly and the DESAT (desaturation) countdown. The Time to Fly countdown shall begin counting from 23:50 to 0:00 (hr:min), 10 minutes after surfacing from a dive. The DESAT counter shall provide calculated time for Tissue Desaturation at sea level taking into consideration the CF (Conservative Factor) if it was set on. It shall begin counting down 10 minutes after surfacing from DIVE or FREE dives counting down from a maximum of 23 to 10 (hr only), then 9:59 to 0:00 (hr:min). When the DESAT countdown reaches 0:00 (hr:min), which will generally occur prior to the FLY countdown reaching 0:00 (hr:min), it will remain on the display as 0:00 until the Fly count down reaches 0:00.

NO PREVIOUS DIVES

10 MIN AFTER A DIVE

hr:min

9:- - displays if time > 9:59
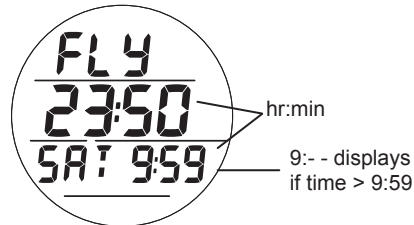
LAST DIVE SCREENS

LAST DIVE 1

The Last Dive screens provide convenient access to data from the previous dive. The LAST DIVE 1 screen displays the graphic LASt diVE and the previous dive number, 0 displays if no dive yet during the activation period.
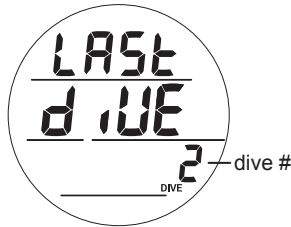
dive #

■ **NOTE: Last Dive 2 and 3 screens will be bypassed if there have been no previous dives during the activation period.**

LAST DIVE 2

The LAST DIVE 2 screen displays the dive ENt (entry) time, maximum depth, and elapsed dive time.

entry time

max depth

elapsed dive time (min)
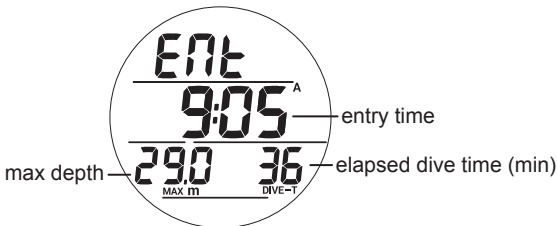
LAST DIVE 3

The LAST DIVE 3 screen displays the dive ENd (exit) time and AVG (average) dive depth.

exit time

average depth

DIVE MAIN MENU

PLAN

This mode calculates dive depth and time limits. To do so, it accounts for any residual nitrogen, oxygen, surface intervals, the programmed gas mix, and PO_2 alarm setting. Either NO DECO (No Decompression) or O_2 MIN limits are displayed, depending on whether nitrogen or oxygen levels will be the limiting factor. The time limit will display as 1-99 minutes, all times greater than 99 display as 99.

📓 **NOTE: Depths exceeding the MOD (Maximum Operating Depth), if nitrox, or that have less than 1 minute allowed dive time will not be displayed.**

PLAN LEAD-IN

to Done Screen

to Planner

to Log Lead-in

blank if Conservative turned OFF

current PO_2 Alarm setpoint, blank if FO2 is Air

% O_2, current FO_2 setpoint

PLAN MODE

to increase depth

back to Lead-in

planned depth

to decrease depth

Maximum Operating Depth

No Decompression or O2 MIN
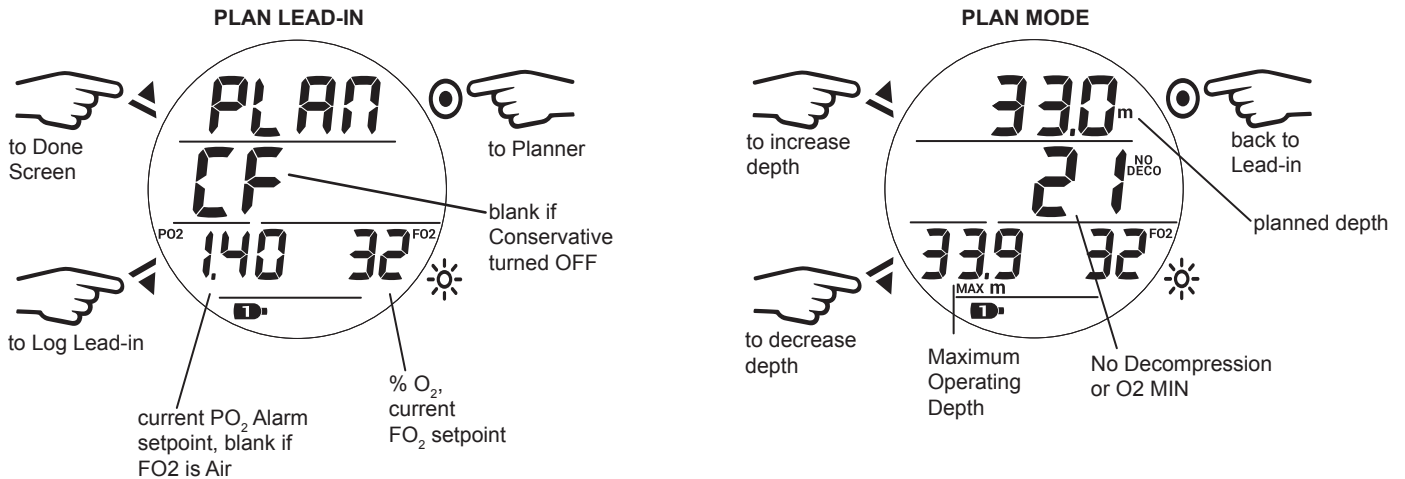
LOG

The log stores Information from the latest 24 Dive and/or Gauge mode dives for viewing.
• If no dives are recorded, the message NONE YET will be displayed.
• After exceeding 24 dives, the most recent dive is stored while the oldest is deleted.
• Dives are numbered from 1 to 24 starting each time a dive is activated in either Dive (or Gauge) mode. After the post dive 24 hour period has elapsed and the unit shuts off, the first dive of the next activation period will be recorded as dive #1.
• In the event that dive time (DIVE MIN) exceeds 999 min, the data at the 999 interval is recorded in the Log upon surfacing of the unit.
• The message GAU (Gauge) or VIO (violation) will display, in the lower left, if applicable on the Log Data 1.

📓 **NOTE: New data will automatically overwrite the oldest data in memory when the memory becomes full. If you do not remember to log or download your dives, they will be lost when the memory overwrites. See the Uploading/Downloading Data section p. 63 of this manual for instructions on downloading dives.**

LOG LEAD-IN

to Plan Lead-in

to Log Preview

to Set Menu Lead-in

LOG PREVIEW

step backward through log records

to Log Data 1

date of dive

dive start time

step forward through log records

dive #

LOG DATA 1

Surface Interval
(hr:min), - : - - if
first dive

SURF

to Log Data 2

max
ascent rate

max tissue loading,
blank if GAUGE dive

max depth

elapsed dive time (min)

LOG DATA 2

to Log Data 3
or back to
Log Preview

lowest
temperature

recorded elevation of
dive location,
SEA (or EL 2 - EL7)

LOG DATA 3

back to
Log Preview

% O_2 Saturation
at end of dive, - - if the
dive entered
Violation Gauge Mode

highest PO_2
reached during
the dive

gas mix
FO_2 (% O_2)

NOTE: Log Data 3 only displays for nitrox dives; it is bypassed if the dive was an air dive.

SET MENU

The Set Menu allows you to access Set Gas, Set Alarms, Set Utilities, and Set Mode.

SET MENU LEAD-IN

to Log
Lead-in

to Set Menu

to DC Info
Lead-in

SET MENU

| Set Gas |
| Set Alarms |
| Set Utilities |
| Set Mode |
| DONE |

to select
menu option

to select an option

exit to previous
Main Menu
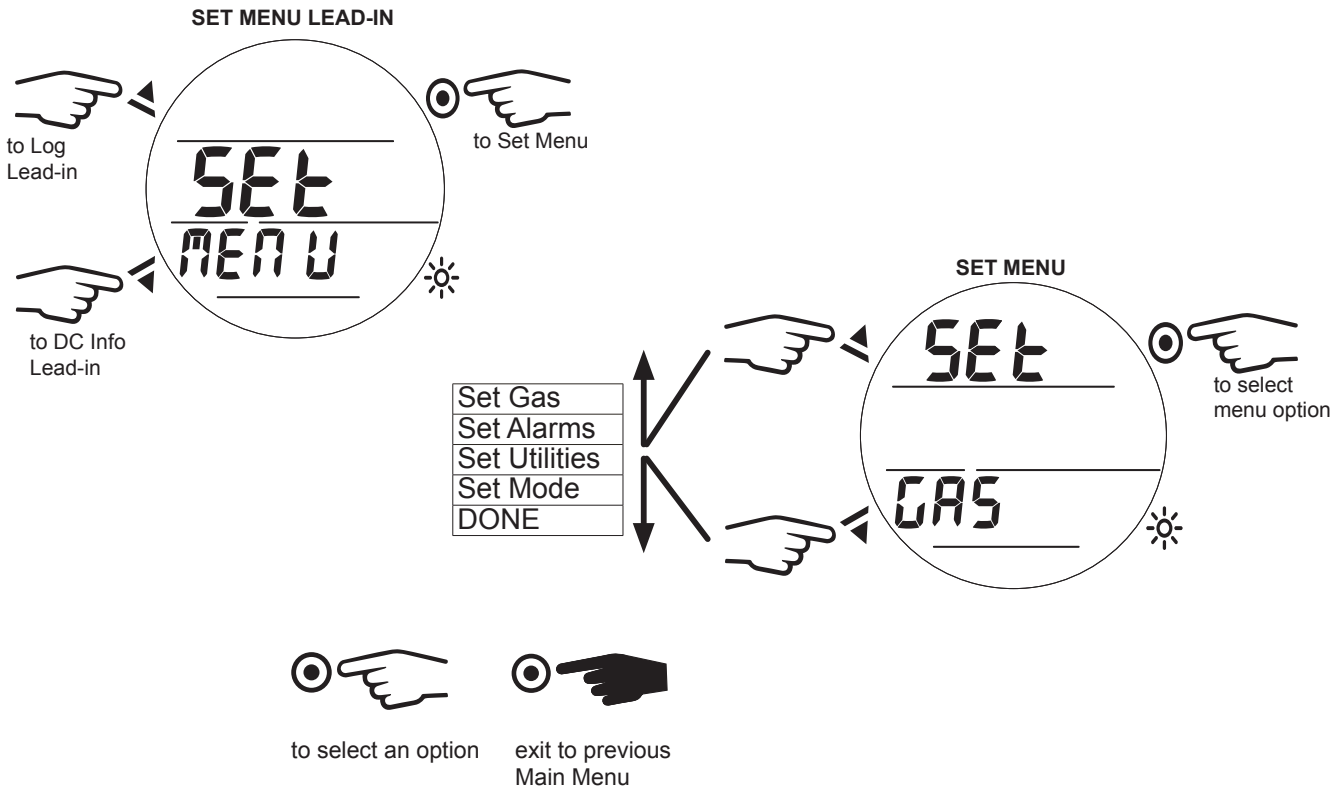
SET GAS

Pressing ◎ (Select) button while viewing the Set Gas Lead-in screen accesses the Set Air/EAN (Enriched Air Nitrox) screen. Within this screen you can select whether to use Air or Nitrox gas mixes. If Air is selected, the i200C will return you to the Set Gas Lead-in screen in the menu. If EAN is selected, the i200C will allow you to choose a gas FO_2 (%O_2) between 21-100%, PO_2 Alarm settings, and whether to use 1 or 2 gases. Additionally, the i200C allows for each gas to have individual PO_2 alarm settings. Within the Set Gas PO_2 Alarm 1 and 2 screens the current PO_2 Alarm setting and corresponding MOD (Maximum Operating Depth) are displayed.

▦ **NOTE: When FO_2 is set for AIR, oxygen related data (such as PO_2, %O_2, and O_2 Saturation) will not be displayed at any time during the dive, on the surface, or in Plan Mode. Though these oxygen values will be tracked internally for use in any subsequent nitrox dives.**

▦ **NOTE: Gas 1 cannot be set to OFF.**

SET GAS LEAD-IN

previous item in Set Menu — access Set Air/EAN

SEt

GAS

next item in Set Menu — toggle setting

SET AIR/EAN

toggle setting — save setting

USE

EAN

toggle setting — Air or EAN

if Air: back to Set Gas Lead-in
if EAN: to Set Gas 1 FO_2

SET GAS 1 FO_2

increase FO_2 value — save FO_2 setting, proceed to Set Gas 1 PO_2 Alarm

40.2 m

PO2 1.60 32 FO2
MAX ❶

decrease FO_2 value

maximum operating depth

FO_2 (O_2%), flashing

SET GAS 1 PO_2 ALARM

increase PO_2 value — save PO_2 Alarm setting, proceed to Set Gas 2

40.2 m

PO2 1.60 32 FO2
MAX ❶

decrease PO_2 value

PO_2 Alarm setting, flashing (1.10 - 1.60, intervals of 0.05)

SET GAS 2 OFF OR SELECT AN FO_2
(similar to Set Gas 1 FO_2)

change setting, increase FO_2 value — save setting

OFF

❷

change setting, increase FO_2 value

OFF or FO_2 (O_2%), flashing

If OFF: back to Set Gas Lead-in
if an FO_2 value: proceed to Set Gas 2 PO_2 Alarm

SET GAS 2 PO_2 ALARM

increase PO_2 value — save PO_2 Alarm setting, return to Set Gas Lead-in

6.0 m

PO2 1.60 100 FO2
MAX ❷

decrease PO_2 value

PO_2 Alarm setting, flashing (1.10 - 1.60, intervals of 0.05)

SET ALARMS

Within this submenu you can customize the following five alarm settings.

SET ALARMS LEAD-IN

previous item in Set Menu

to Set Audible Alarm

next item in Set Menu
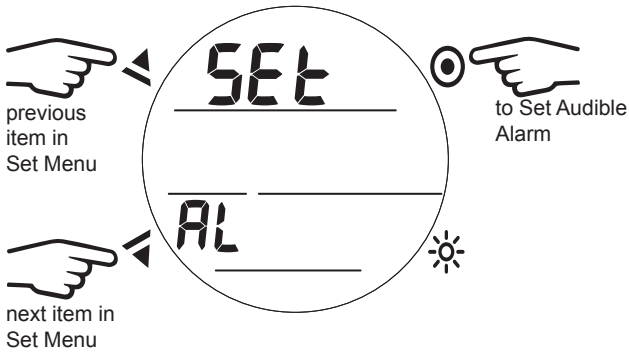
1. AUDIBLE ALARM

The Audible Alarm feature allows you to set audible alarms ON or OFF.

SET AUDIBLE ALARM

toggle setting

to select

toggle setting

OFF or ON
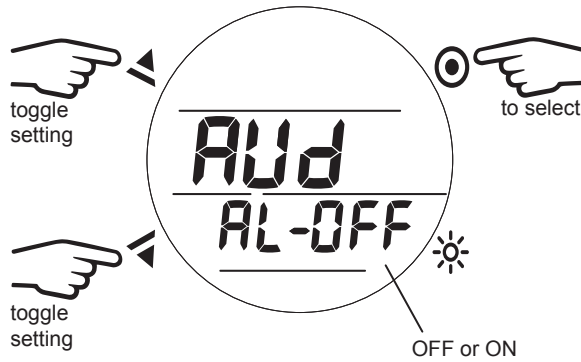
2. DEPTH ALARM

The Depth Alarm feature allows you to set a maximum depth alarm.

SET DEPTH ALARM

increase value

to select

decrease value

OFF, 10 - 100 m (30 - 330 ft)
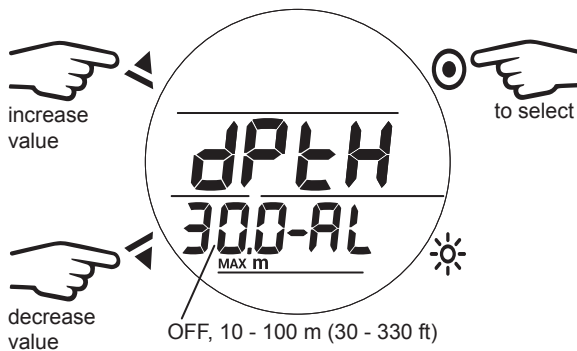
DEPTH ALARM TRIGGERED

flashing
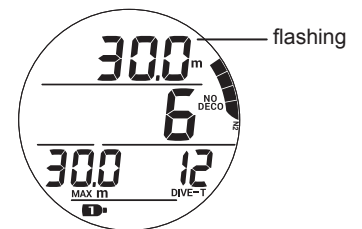
3. EDT (Elapsed Dive Time) Alarm

This feature allows you to set an alarm to go off at a predetermined amount of dive time.

SET EDT ALARM

increase
value

to select

decrease
value

Edt
AL-OFF

OFF, 10 - 180 min

EDT ALARM TRIGGERED

16.5 m
NO DECO
26
18.6   30
MAX m   DIVE-T

flashing
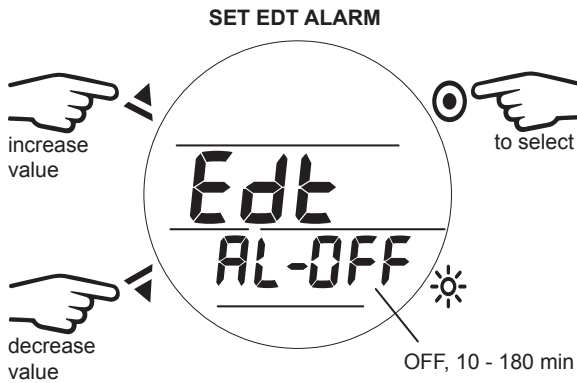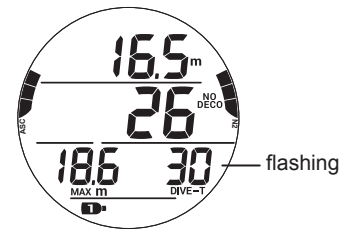
4. N2 AL (Nitrogen Alarm)

This feature allows you to set an alarm to go off at a predetermined number of N2 bar graph segments.

SET N2 ALARM

increase
segments

to select

# of segments
selected if ON
or OFF, flashing

decrease
segments

N2
AL

N2 ALARM TRIGGERED

35.4 m
NO DECO
2
42.2   13
MAX m   DIVE-T

flashing
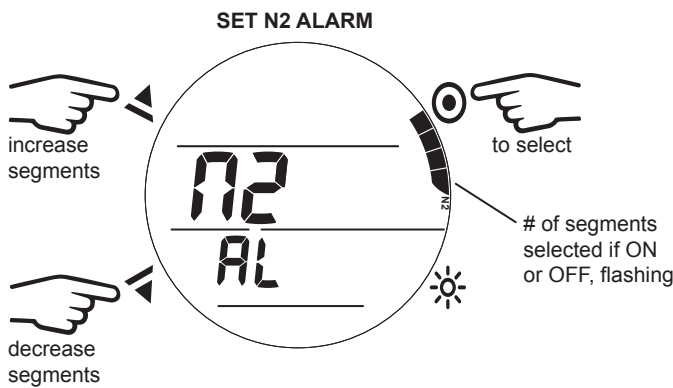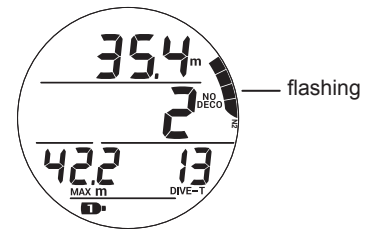
5. DTR (Dive Time Remaining) ALARM

This feature allows you to set an alarm to go off with a designated reserve of dive time remaining.

SET DTR ALARM

increase
value

to select

decrease
value

dtr
AL- 10
MIN

OFF, 5 - 20 min

DTR ALARM TRIGGERED

16.6 m
NO DECO
5
22.7   42
MAX m   DIVE-T

flashing
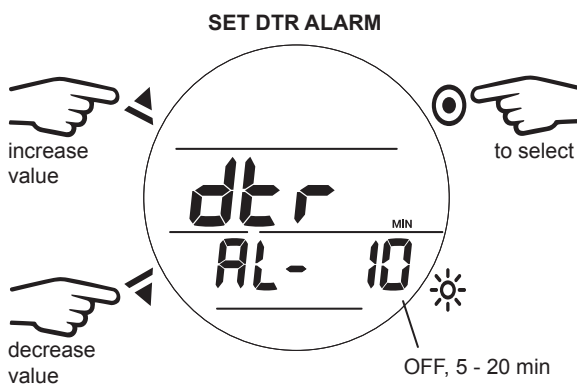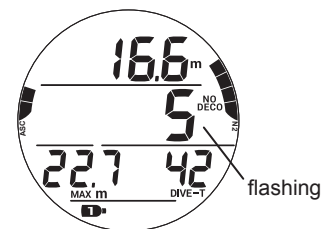
SET UTILITIES

Within the Set Utilities menu you can customize the following nine operational functions.

SET UTILITIES LEAD-IN

previous item in Set Menu

to Set H2O Type

next item in Set Menu
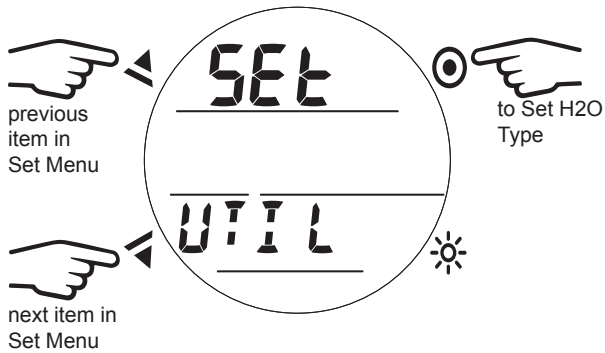
1. H2O TYPE (Water Type)

The H2O Type feature allows you to set SALT or FRESH water environment for accurate depth calculations.

SET H2O TYPE

toggle setting

to select

toggle setting

or FRESH
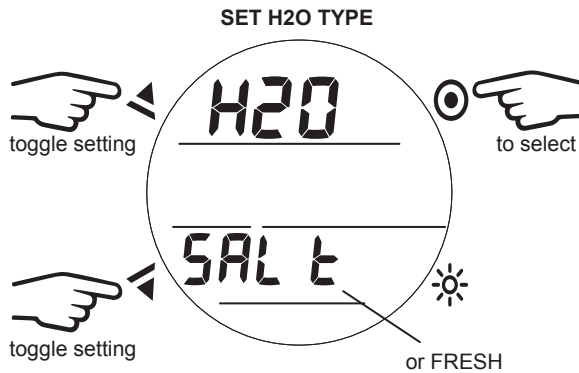
2. H2O ACTIVATION

The H2O Activation feature allows you to turn OFF water contact activation.

⚠ **WARNING: With H2O Activation turned OFF, you <u>MUST</u> remember to manually activate the Dive Mode before any dive.**

SET H2O ACTIVATION

toggle setting

to select

toggle setting

OFF or ON
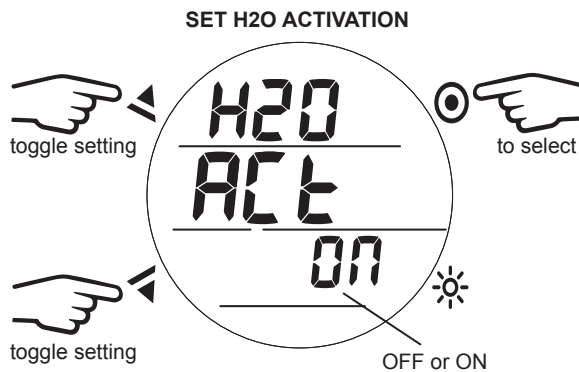
3. UNITS (IMP/MET)

The Units feature allows you to select whether MET (metric) or IMP (imperial) units of measure will be displayed.

SET UNITS

toggle setting

toggle setting

to select

m

MET

MET or IMP
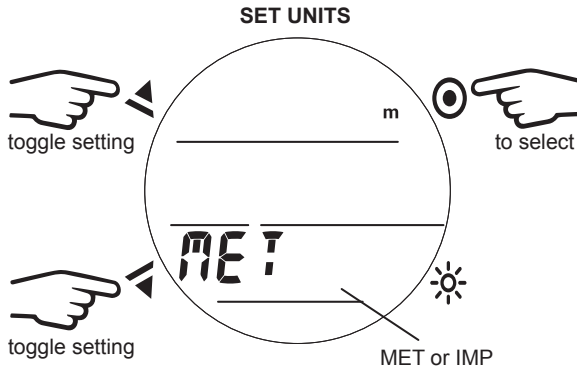
4. DEEP STOP

The Deep Stop feature can be set ON or OFF.

SET DEEP STOP

toggle setting

toggle setting

to select

dEEP StOP

STOP ON

OFF or ON
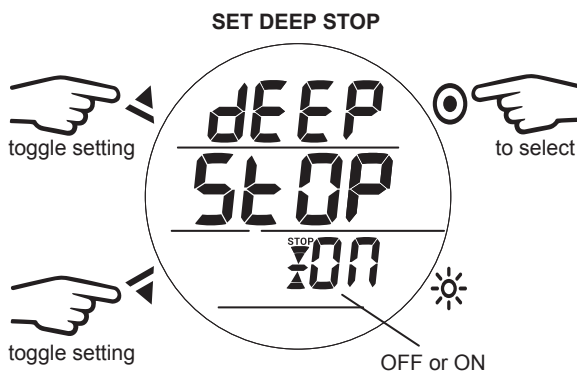
5. SAFETY STOP

The Safety Stop feature can be set ON or OFF. If ON is selected, you may choose from an available 3 or 5 min Safety Stop at depths of 3, 4, 5, or 6 m (10, 15, or 20 ft).

SET SAFETY STOP

toggle setting

toggle setting

to select

SAFE StOP

STOP ON

OFF or ON

SET SAFETY STOP TIME

toggle setting

toggle setting

to select

SAFE StOP

m STOP 5:3:00

3:00 or 5:00 (min:sec)

SET SAFETY STOP DEPTH

increase value

decrease value

to select

SAFE StOP

m STOP 5:3:00

3, 4, 5, or 6 m (10, 15, or 20 ft)
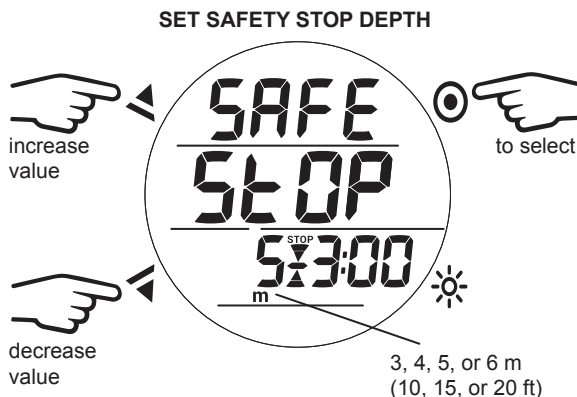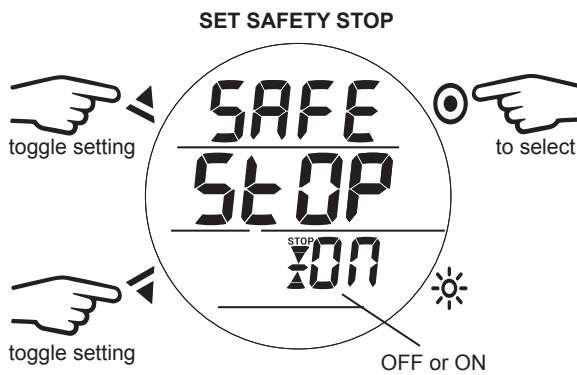
6. CONSERVATIVE FACTOR

The Conservative factor tables feature can be set ON or OFF.

SET CONSERVATIVE FACTOR

toggle setting

to select

toggle setting

OFF or ON
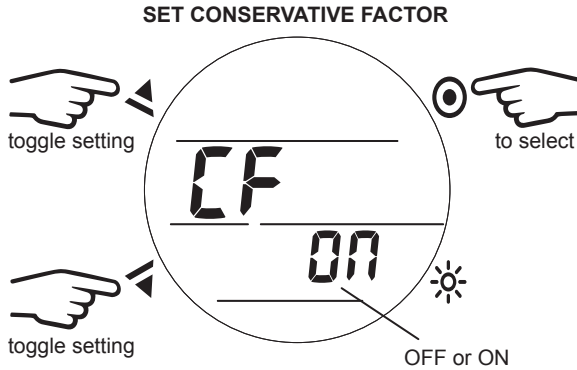
7. BLUETOOTH (Bluetooth Communication)

Within this screen the Bluetooth® may be turned ON or OFF. When ON is selected, dashes will display sequentially at the top of the screen indicating that Bluetooth® is initiating. When Bluetooth® is turned on it will operate in sniffing mode (searching for compatible devices) while on the surface and the i200C is not in Standby Mode. Communication with your i200C must be initiated with your mobile device using Diverlog+ software.

NOTE: When Bluetooth® is ON the Bluetooth® icon will be displayed when on the surface and in Dive, Gauge, or Free Mode but not during Watch or Standby Mode. Bluetooth® is temporarily deactivated when the i200C enters Watch Mode, Standby Mode, or a dive is started. The i200C returns to "sniffing" mode when the i200C returns to Surface Mode after a dive or a button is pushed to wake the computer from Standby Mode on the surface. You will notice the Bluetooth® icon flashing as the Bluetooth® function is reinitiating.

SET BLUETOOTH

toggle setting

to select

OFF or ON

toggle setting
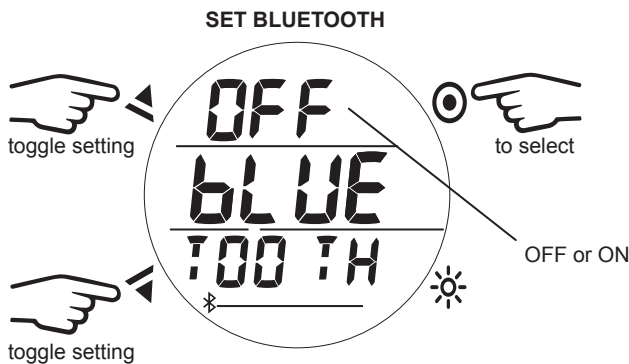
8. LIGHT DURATION

This setting is the duration the backlight stays on after releasing the buttons.

SET LIGHT DURATION

increase value

to select

decrease value

0, 5, or 10 sec
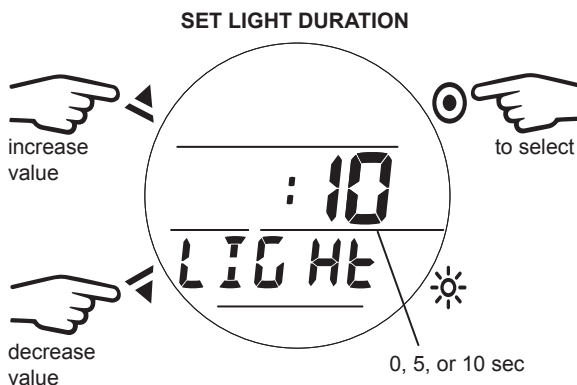
9. SAMPLING RATE

The Sample Rate controls how frequently the i200C stores a data snapshot for Diverlog + Download during a dive. Setting options are 2, 15, 30, or 60 second intervals. Shorter intervals will provide a more precise record of your dives.

NOTE: New data will automatically overwrite the oldest data in memory when the memory becomes full. The i200C Log and Diverlog + Download data are stored separately in different partitions of the memory. The Log only stores a short summary of each dive. Alternately, the Diverlog + Download function stores much larger files for each dive. Depending on the chosen settings and dive durations, it is possible to see dives stored in the i200C's onboard Log that have already been overwritten in the Diverlog + Download Partition. Choosing a longer Sample Rate interval will consume less memory per dive. Remember to download your dives more frequently if you are using a shorter Sample Rate interval.

SET SAMPLE RATE

increase value

to select

: 10
SAM PLE

2, 15, 30, or 60 sec

decrease value
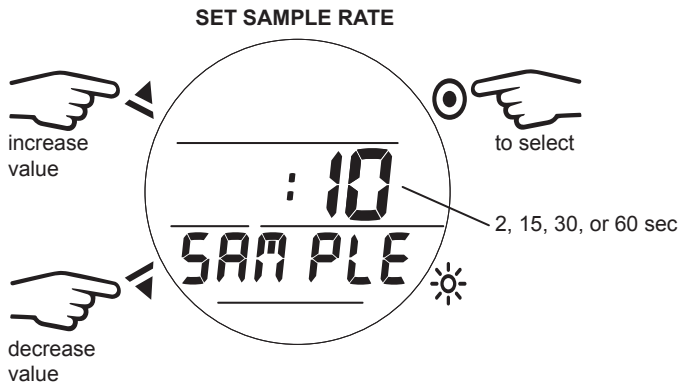
DIVE & GAUGE DOWNLOAD MEMORY CAPACITY	
SAMPLE RATE (seconds)	MAXIMUM HOURS
2	4
15	32
30	64
60	128

SET MODE (OPERATION MODE)

Set Mode allows you to choose between Dive (standard recreational dive), Gauge, and Free (free diving) modes of operation.

NOTE: Once a dive is conducted in Gauge mode, the i200C shall operate with limited functions without any decompression or oxygen monitoring functions. A 24 hour surface interval shall be required for the unit to operate as a full function dive computer in Dive or Free mode.

SET MODE LEAD-IN

previous item in Set Menu

to Set Mode

SEt
MODE

next item in Set Menu

SET MODE

toggle setting

to select

diVE
MODE

toggle setting

diVE, GAUG, or FrEE
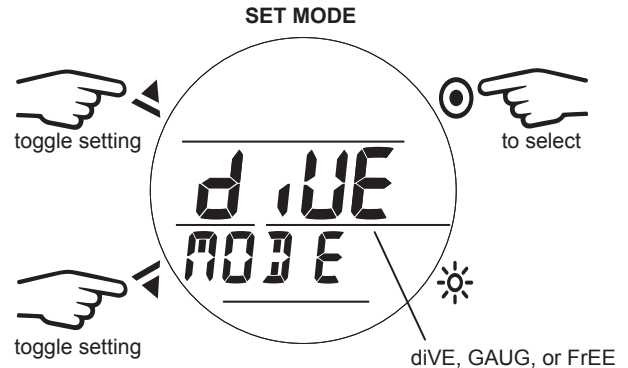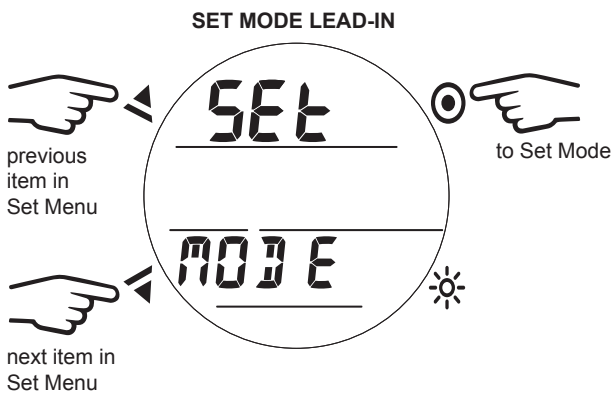
DONE SCREEN (SET MENU)

The Done Screen is a gateway to exit the Set Menu and return to the Main Menu.

to Set
Mode

return to Main
Menu

DON E

to Set Gas
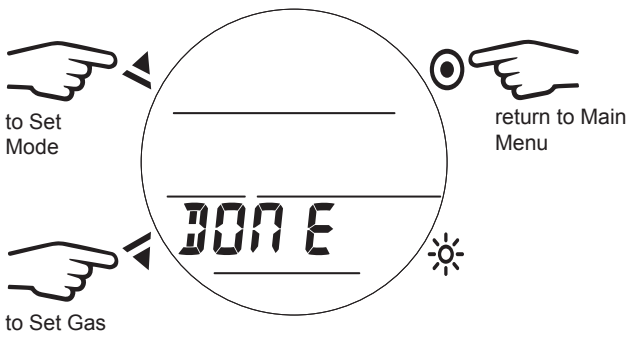
DC INFO MENU

The DC Info Menu allows access to stored information about your i200C.

DC INFO LEAD-IN

to Set Menu
Lead-in

to select

**dC
INFO
MENU**

to Done Screen
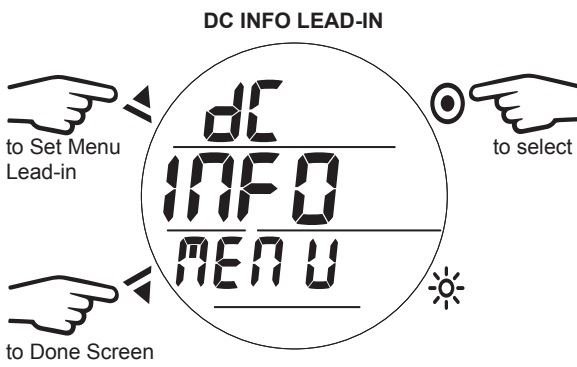
1. HISTORY

History is a summary of all basic data recorded during Dive and Gauge mode dives.

📘 **NOTE: Dives made in Free mode are not shown in History or the Log Mode. Free dive data is only visible using the Download software.**

HISTORY 1

to Done
Screen

**Hour
59
HIS   74**
MAX   DIVE

to History 2

total dive hours,
0 - 19999

total # of dives, 0 - 999

lowest recorded
water temperature

HISTORY 2

to History 1

highest recorded
altitude, SEA level
(or EL2 - EL7)

**53·F
SEA
208   76**
MAX   ft   DIVE-T

to Serial Number

deepest recorded dive

longest dive time
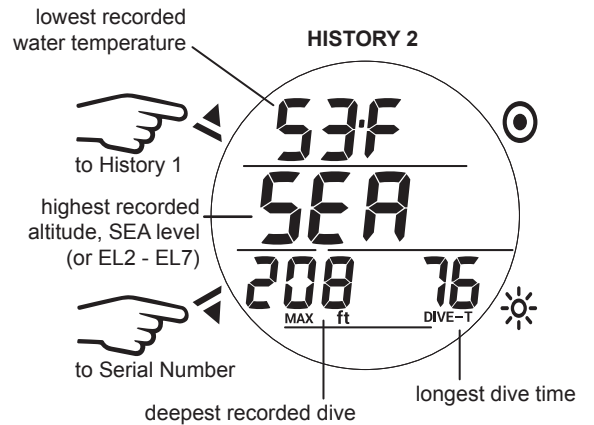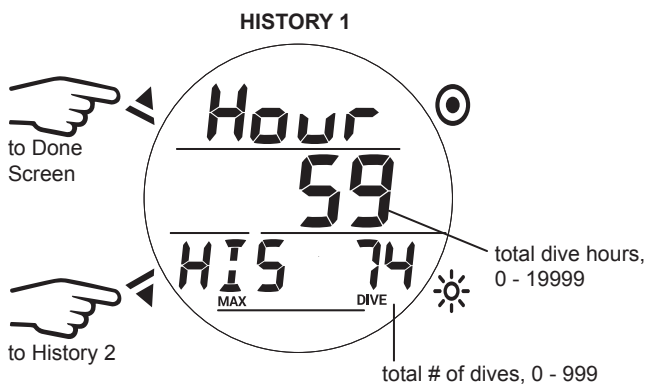
2. SERIAL NUMBER

Information displayed on the Serial Number screen should be recorded and kept with your sales receipt; it will be required in the event that your i200C requires factory service.

to History 2

to Done Screen

r 1A

SN

123 456

revision #

serial #
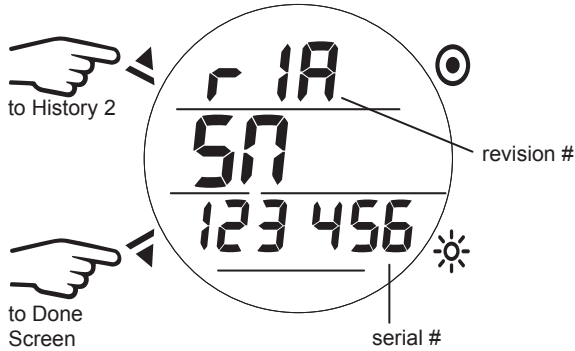
3. DONE SCREEN (DC INFO MENU)

The Done Screen is a gateway to exit the DC Info Menu and return to the Main Menu.

to Serial Number

to History 1

return to Main Menu
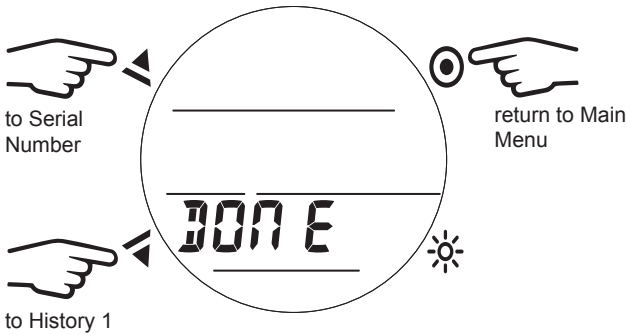
DON E

DONE SCREEN (MAIN MENU)

The Done Screen is a gateway to exit the Main Menu and return to the Dive Surface Main Screen.

to DC Info

to Plan

exit menu, return to Dive Surface Main

DON E
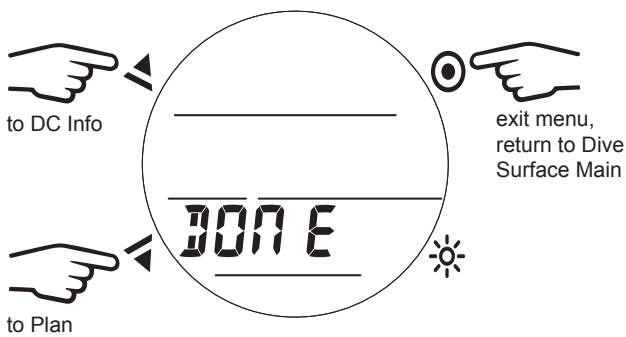
DIVE OPERATION

INITIATING A DIVE

With the i200C in Dive mode, a dive will commence upon descending to 1.5 m (5 ft) for at least 5 seconds. Below is a diagram to help you navigate Dive mode functions.

to access
Gas Menu

GAS MENU*
ALT 1
ALT 2 (nitrox only)
DEEP STOP
PREVIEW**
back to Main

NO DECOMPRESSION DIVE MAIN

acknowledge alarm

backlight
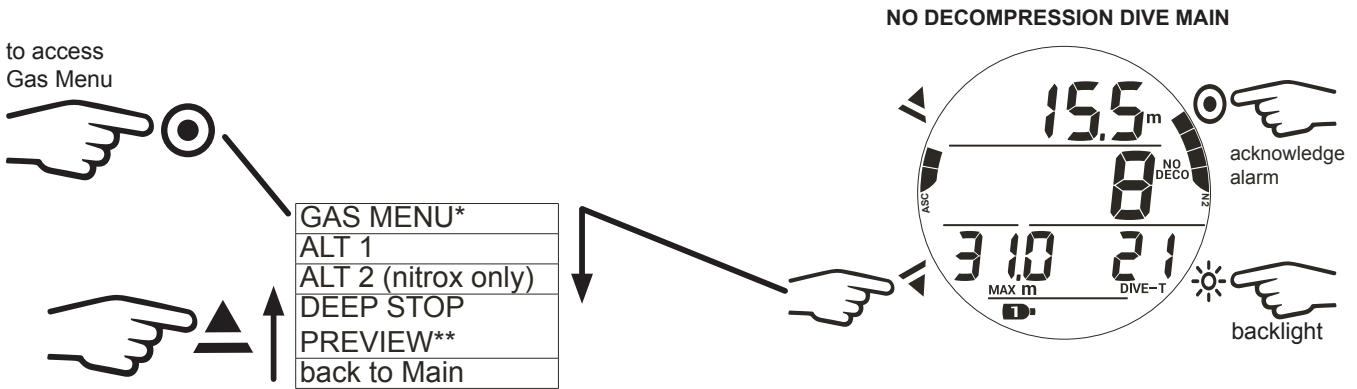
*Bypassed if in Air Mode or Gas 2 is set OFF.
**Bypassed if Deep Stop is not triggered.

NO DECOMPRESSION DIVE MAIN

From the Main screen you can see all critical dive parameters. During a dive an audible alarm may sound and the priority of information displayed may change. This is to indicate a safety recommendation, warning, or alarm. The following information in this chapter demonstrates and describes an uneventful dive, in terms of safety. Alarms are described in the Complications section of this chapter.

⚠️ **WARNING: Before diving with the i200C take time to familiarize yourself with both normal and alarm conditions of operation.**

DIVE MAIN

depth

ascent rate
bar graph

max depth

Gas #

Dive Time Remaining
0 - 99 min, all times greater than 99 display as 99
(NO DECO or O2 min depending on which is the limiting factor)

Nitrogen Loading
Bar Graph

elapsed dive time
0 - 999 min
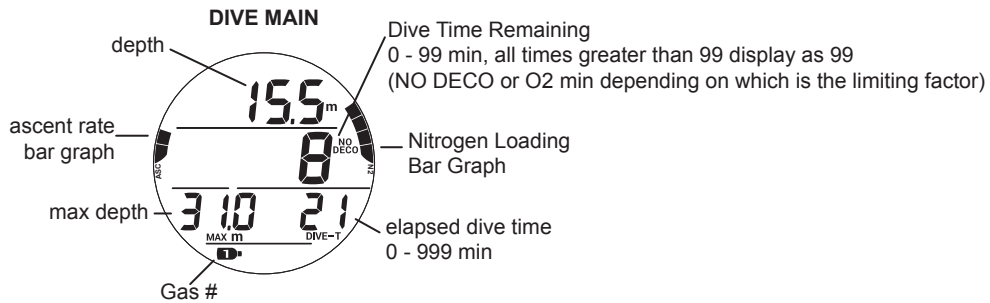
GAS MENU

The Gas Menu allows you to manually switch gases during the dive. The Gas Menu Lead-in screen is bypassed if your i200C is set to Air or Gas 2 is set OFF. See the following section "Gas Switches" for further details on this feature.

DIVE ALT 1

This screen simply tells you the current time of day and ambient temperature.

DIVE ALT 2

The ALT 2 screen displays information pertaining to nitrox; it is bypassed if the i200C is set for air.

current
PO$_2$ value ——— **1.02 32** ——— FO$_2$ setting

% O$_2$ saturation
0 - 100

46 O2SAT
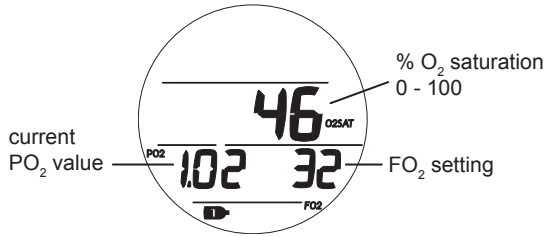
DEEP STOP PREVIEW

If Deep Stop was set to ON in the Utilities Menu, the Deep Stop preview screen is available after exceeding 24 m (80 ft) of depth. The Deep Stop is always at a depth half that of your maximum depth during the dive. This preview screen keeps track of that depth for you.

Deep Stop depth ——— **18.0 2:00** ——— stop time (min:sec)
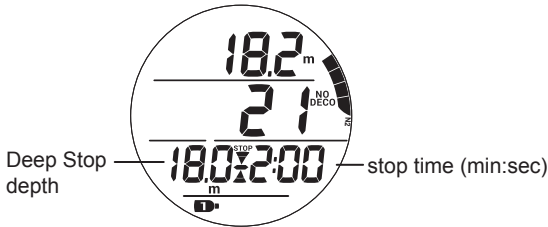
DEEP STOP MAIN

If triggered, the Deep Stop will activate upon ascending to within 3 m (10 ft) below the calculated Deep Stop depth. The stop time will be displayed and count down to 0:00 as long as you stay within 3 m (10 ft) above or below the stop. While Deep Stop Main is displayed, Max Depth and Divet-T (elapsed dive time) are moved to an alternate screen (DS ALT, see bold below). The Deep Stop feature is described in greater detail in the Dive Features chapter for further details.

NOTE: The i200C does not penalize for a missed Deep Stop.

DEEP STOP MAIN

to access
Gas Menu

| GAS MENU* |
| **DS ALT** |
| ALT 1 |
| ALT 2 (nitrox only) |
| DEEP STOP |
| PREVIEW** |
| back to Main |

15.5 M
21 NDC
15.0 1:47 sec

acknowledge alarm

backlight

stop depth

remaining stop time (min:sec)
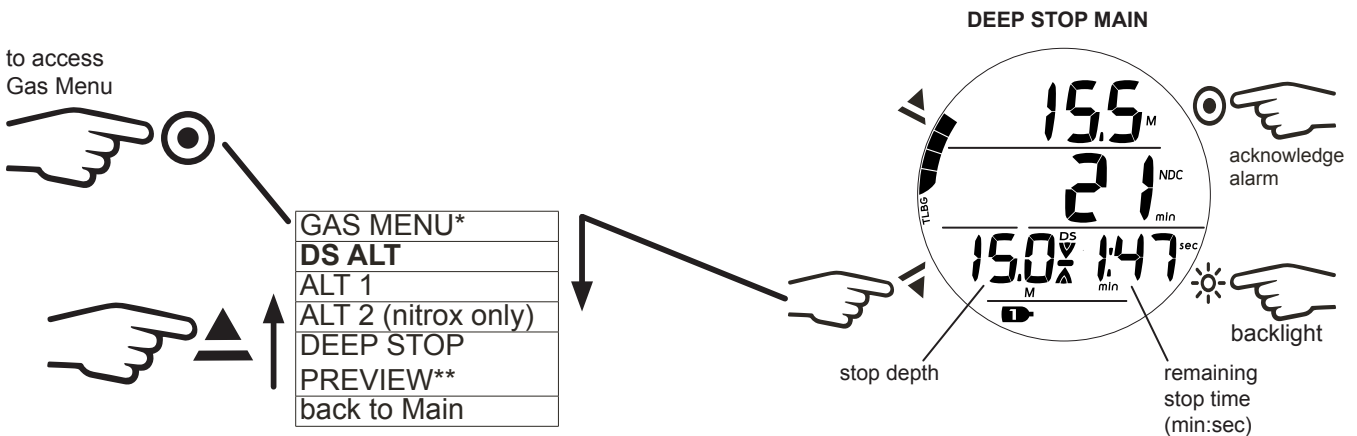
*Bypassed if in Air Mode or Gas 2 is set OFF.
**Bypassed if Deep Stop is not triggered.

SAFETY STOP MAIN

If triggered, the Safety Stop will activate upon ascent to within 1.5 m (5 ft) deeper than the Safety Stop depth on a No Deco dive. The stop time will then countdown to 0:00. While the Safety Stop is triggered, Max Depth and Divet-T (elapsed dive time) are moved to an alternate screen (SS ALT, see bold below). The Safety Stop feature is described in greater detail in the Dive Features chapter for further details.

NOTE: The i200C does not penalize for a missed Safety Stop.

SAFETY STOP MAIN

to access
Gas Menu

| GAS MENU* |
| **SS ALT** |
| ALT 1 |
| ALT 2 (nitrox only) |
| DEEP STOP |
| PREVIEW** |
| back to Main |

acknowledge
alarm

backlight

stop depth

remaining
stop time
(min:sec)
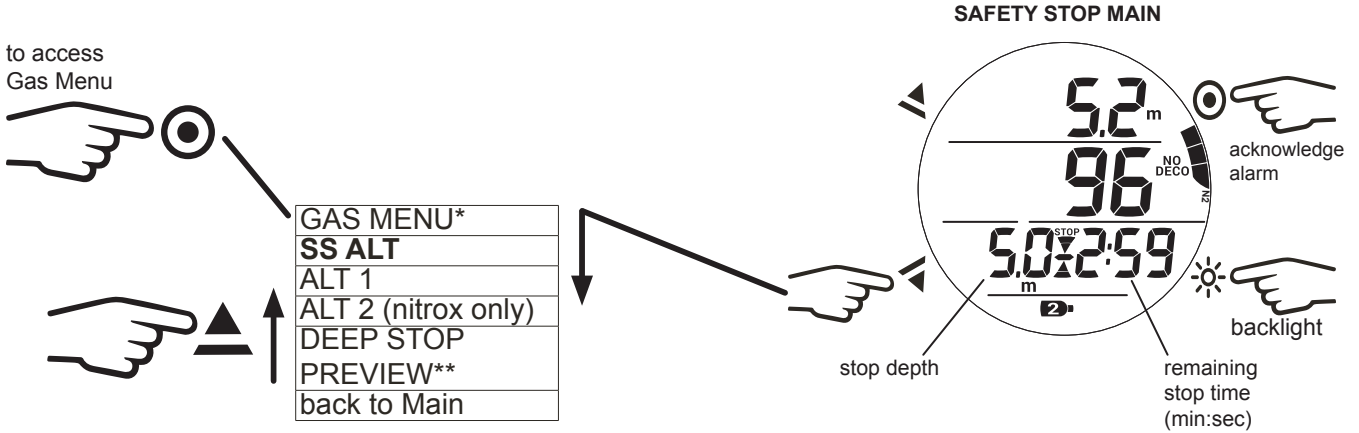
*Bypassed if in Air Mode or Gas 2 is set OFF.
**Bypassed if Deep Stop is not triggered.

SURFACING

Upon ascending to 0.9 m (3 ft) the i200C transitions to Dive Surface mode.

NOTE: The i200C requires a 10 minute surface interval to record a subsequent dive as a separate dive in the Log. Otherwise, the dives will be combined and recorded as a single dive in the i200C memory.

surface time
(hr:min)

residual
nitrogen

max depth
reached

elapsed dive
time
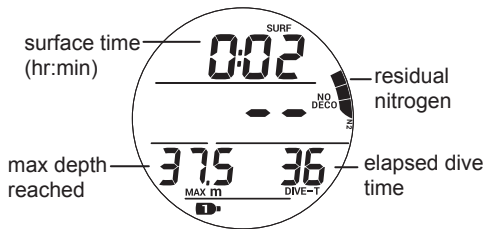
GAS SWITCHES

⚠ WARNINGS:

- Historically, many accidents and near misses have occurred by switching to the wrong gas at the wrong depth. DO NOT attempt gas switch decompression dives without proper education and training to do so from an internationally recognized training agency.
- Diving deeper than 39 m (130 ft), will greatly increase your risk of decompression sickness.
- Decompression diving is inherently hazardous and greatly increases your risk of decompression sickness, even when performed according to the dive computer's calculations.
- Using an i200C is no guarantee of avoiding decompression sickness.
- The i200C enters Violation Mode when a situation exceeds its capacity to predict an ascent procedure. These dives represent gross excursions into decompression that are beyond the boundaries and spirit of the i200C's design. If you are following these dive profiles, Aqua Lung advises that you should not use an i200C.
- If you exceed certain limits, the i200C will not be able to help you get safely back to the surface. These situations exceed tested limits and can result in loss of some functions for 24 hours after the dive in which a violation occurred.

OVERVIEW

- All dives begin with GAS 1.
- The active gas defaults to GAS 1 after 10 minutes on the surface.
- Gas switches can only be made when gas 2 is set on.
- Gases cannot be switched while on the surface.
- The Gas Switch Menu cannot be accessed during the sounding of alarms.
- If an alarm strikes while in the Gas Switch Menu, the switch operation is terminated (reverting to the Dive Main screen).

GAS MENU LEAD-IN

back to ive Main

access Gas Menu

to Alt 1

GAS MENU

toggle between Gas 1 & 2

select gas*

toggle between Gas 1 & 2

current PO$_2$ value

%O$_2$ mix
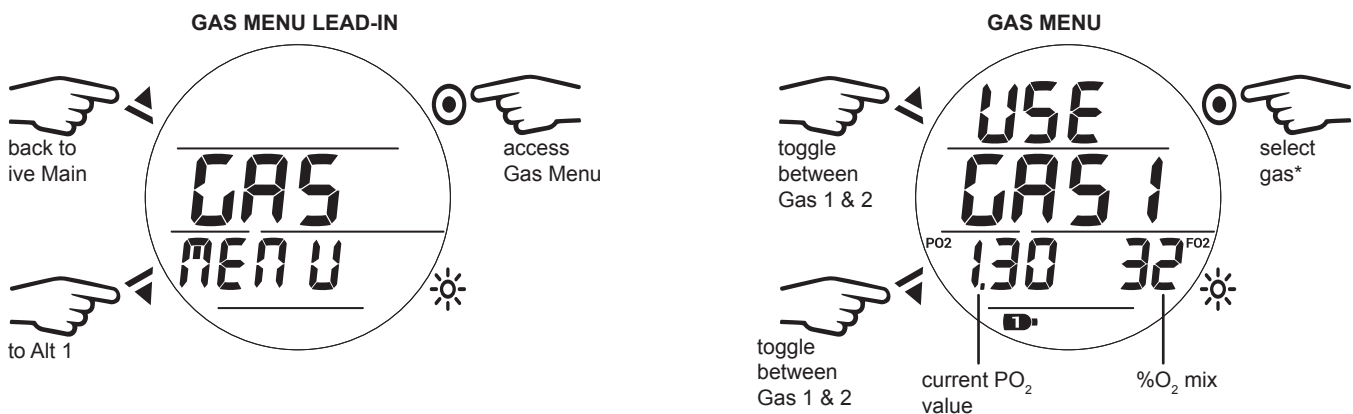
If no button is pressed the i200C will revert to the Dive Main screen after 10 seconds.

If the current PO_2 value is greater than 1.6, then a warning not to switch will display. The i200C will maintain the current gas without switching. The diver may override the i200C and force the gas switch by pressing the ◎ (Select) during the "dont USE" message.

⚠ **WARNING: Switching to gases with a PO_2 above 1.6 has a high risk of oxygen poisoning, convulsions, and drowning. Doing so should always be avoided. It is intended as a last resort option because of the likelihood of injury or drowning. Always dive within your training, experience, and skill level.**

current
PO_2 value
of this gas ——— *dont* *USE* PO2 *1.6* / *100* FO2 ——— FO_2 setting

COMPLICATIONS

The preceding information has described standard dive operations. Your new i200C is also designed to help you to the surface in less than ideal situations. The following is a description of these situations. Take some time to familiarize yourself with these operations before diving your i200C.

DECOMPRESSION
Decompression (deco) mode activates when theoretical No Decompression time and depth limits are exceeded. Upon entry into decompression, the audible alarm will sound and the alarm LED will flash. The full Nitrogen Loading Bar Graph and Up Arrow icon will flash until the audible is silenced.

• Once within 3 m (10 ft) below the required Stop Depth (stop zone), the Full Stop icon (both Arrows with Stop Bar) will be displayed solid.

To fulfill your decompression obligation, you should make a safe controlled ascent to a depth slightly deeper than, or equal to, the required stop depth indicated and decompress for the stop time indicated. The amount of decompression credit time that you receive is dependent on Depth, with slightly less credit given the deeper you are below the Stop Depth indicated. You should stay slightly deeper than the required Stop Depth indicated until the next shallower Stop Depth appears. Then you can slowly ascend to that indicated Stop Depth but not shallower.

DECOMPRESSION ENTRY
Upon entry into decompression (deco) the audible alarm will sound and the alarm LED will flash until the audible is silenced. The up arrow and full Nitrogen Loading Bar Graph icons will flash. Additionally, the stop depth, stop time, and the TTS (Time To Surface) values will be displayed. TTS includes stop times at all required Decompression Stops plus vertical ascent time based on the max ascent rate allowed.

Time To Surface
0 - 99, then - - if
greater than 99 min

stop depth

remaining stop
time (min)

up arrow
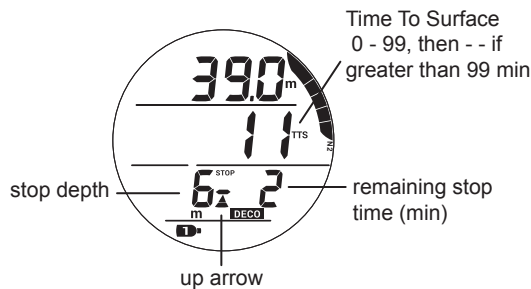
DECOMPRESSION STOP MAIN
Decompression (deco) Stop Main will display upon ascending to within 3 m (10 ft) below the Decompression Stop depth. The full stop graphic (opposed arrows with stop bar) will be displayed solid. While Decompression Stop Main is displayed, you may access up to 3 ALT displays by pressing the ADV button to cycle through them. They are similar to the No Decompression Main, Dive ALT 1, and Dive ALT 2 displays, respectively.

Time To Surface 0 - 99,
then - - if greater than 99 min

stop depth

remaining stop
time (min)

full stop graphic
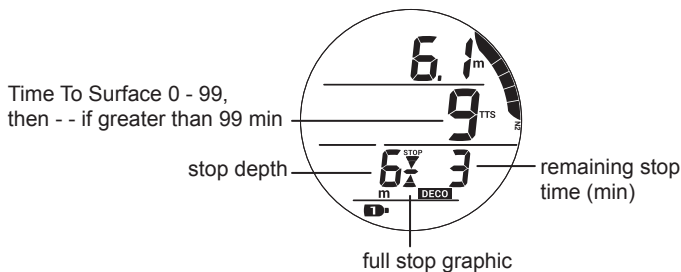
CONDITIONAL VIOLATION (CV)

Upon ascent above the required Decompression (deco) Stop depth, operation will enter Conditional Violation during which time no off gassing credit will be given.

The Audible alarm will sound and the alarm LED will flash. The full Nitrogen Loading Bar Graph and down arrow will flash until the audible alarm is silenced, then the Nitrogen Loading Bar Graph will be solid.

- The down arrow continues to flash until descending below the required Stop Depth (within stop zone), then the full stop graphic (opposed arrows with stop bar) will be on solid.
- If you descend deeper than the required Decompression Stop before 5 minutes elapse, Decompression operation will continue with no off gassing credit given for time above the Stop. Instead, for each minute above the Stop 1½ minutes of penalty time will be added to the required Stop Time.
- The added penalty (decompression) time will have to be worked off before obtaining off gassing credit.
- Once the penalty time is worked off, and off gassing credit begins, required Decompression Stop Depths and Time will decrease toward zero. The Nitrogen Loading Bar Graph will recede into the No Decompression zone, and operation will revert to No Decompression mode.
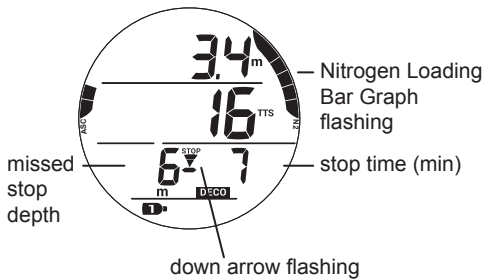

Nitrogen Loading Bar Graph flashing

missed stop depth

stop time (min)

down arrow flashing

DELAYED VIOLATION 1 (DV 1)

If you remain shallower than a Decompression Stop Depth for more than 5 minutes, operation will enter DV1* which is a continuation of CV with penalty time still being added. Again, the audible alarm will sound and the full Nitrogen Loading Bar Graph will flash until it is silenced. ALT screens are accessed and appear similar to Decompression ALT screens.

The difference is that 5 minutes after surfacing from the dive, operation will now enter Violation Gauge Mode.

- The down arrow continues to flash until descending below the required Stop Depth, then the full stop graphic will be on solid.
- If the DV1 status is ignored, the i200C will enter DV1 Surface mode for 5 minutes upon surfacing from the dive. The down arrow, Decompression Stop depth/time, and Surface Time will be displayed. After 5 minutes on the surface in DV1 mode, the unit will enter VGM (Violation Gauge Mode).

DV1 DIVE MAIN

Tissue Loading Bar Graph flashing

missed stop depth

time required at missed stop (min)

down arrow flashing

DV1 < 5 MIN ON SURFACE

Surface Time (hour:min)
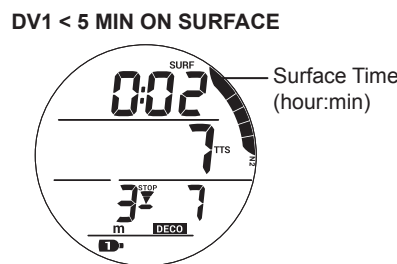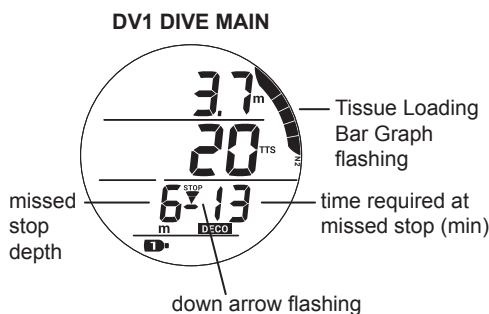
DELAYED VIOLATION 2 (DV 2)

If the calculated Decompression obligation requires a Stop Depth between 18 m (60 ft) and 21 m (70 ft), operation will enter DV2.

The audible alarm will sound and the alarm LED will flash. The full Nitrogen Loading Bar Graph will flash until the audible is silenced.

- The up arrow flashes if 3 m (10 ft) deeper than the required Stop Depth.
- Once within 3 m (10 ft) of and below the required Stop Depth, the full stop graphic (opposing arrows with stop bar) will be displayed solid.
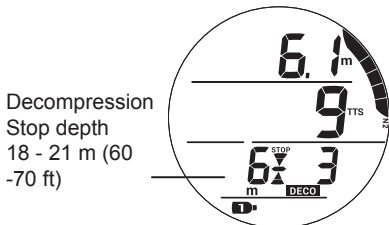
Decompression
Stop depth
18 - 21 m (60 -70 ft)

DELAYED VIOLATION 3 (DV 3)

If you descend deeper than the maximum functional depth*, the audible alarm will sound, the alarm LED will flash, and the up arrow will flash. Additionally, Current Depth will only indicate dashes signifying that you are too deep.

*The maximum functional depth (330 ft / 100 m) is the depth at which the i200C can properly perform calculations or provide accurate display information.

Upon ascending above the maximum functional depth, current depth will be restored. However, the log for that dive will display dashes for max depth.

flashing
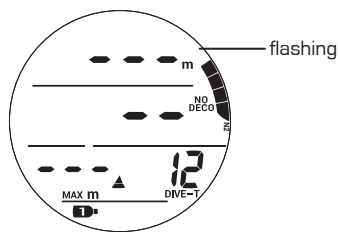
VIOLATION GAUGE MODE (VGM) DURING A DIVE

During Dive mode dives, operation will enter VGM when Decompression requires a Stop Depth greater than 21 m (70 ft). It will also enter VGM if Deco is activated during a dive in Free mode, described later. Operation would then continue in VGM during the remainder of that dive and for 24 hours after surfacing. VGM turns the i200C into a digital instrument without any decompression or oxygen related calculations or displays. Upon activation of VGM, the audible alarm will sound and the alarm LED will flash. The message VIO (violation) with the up arrow will flash. After the audible alarm becomes silent (10 seconds), the NO DECO (No Decompression) and Nitrogen Loading Bar Graph will not display for the rest of the dive.

VGM DURING AUDIBLE

VGM AFTER AUDIBLE

flashing

Tissue Loading
Bar Graph
removed
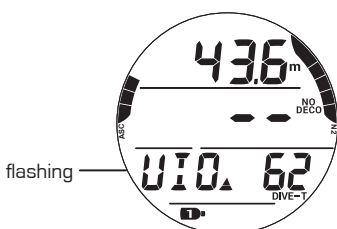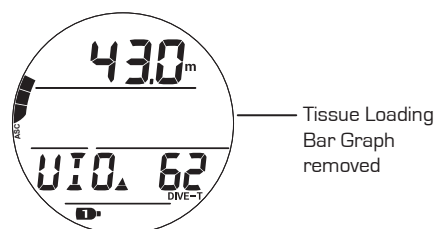
VIOLATION GAUGE MODE (VGM) ON THE SURFACE

The message VIO (violation) is displayed until 24 hours elapse with no dives. During that 24 hours, VGM lockout does not allow access to the Set Gas, Plan, Desat, and Free mode features/screens. All Watch functions will be allowed.

• The Fly countdown timer provides the time remaining before normal operation can resume with full features and functions.

• In the event that a dive is made during the 24 hour lockout period, a full 24 hour surface interval must then be served before all functions are restored.

flashing — *0:06 SURF / VIO 62 DIVE-T*
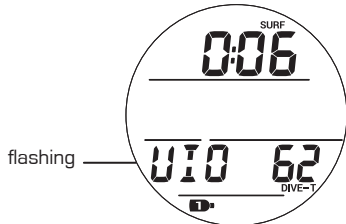
HIGH PO$_2$

Alarm >> at Set Point value, except in Deco then at greater than 1.60.

Alarm

If PO$_2$ continues to increase and reaches the alarm set point, the audible alarm sounds again. The PO$_2$ value will flash in place of max depth during the audible alarm. After the audible alarm is silenced, the PO$_2$ will alternate with max depth. Additionally, the up arrow will flash continually until PO$_2$ decreases below the alarm set point.

DURING AUDIBLE ALARM

flashing — *33.8 m / 6 NO DECO / PO2 1.40 ▲ 9 DIVE-T*

AFTER AUDIBLE ALARM

PO$_2$ alternating with max depth — *33.8 m / 6 NO DECO / 45.4 ▲ MAX m 9 DIVE-T*

flashing
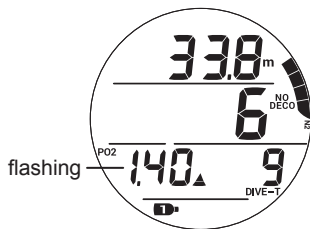
PO$_2$ During Decompression

The PO$_2$ alarm setting does not apply when in Decompression. If PO$_2$ exceeds 1.60 while at a Decompression Stop, the PO$_2$ value with icon will alternate with decompression stop depth/time until the PO$_2$ value decreases below 1.60.

PO$_2$ alternating with decompression stop/depth — *6.1 m / 18 TTS / PO2 1.61*
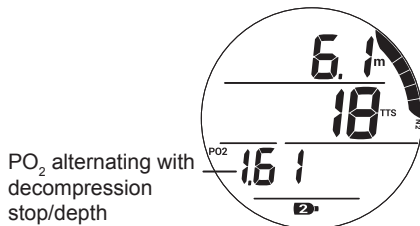
HIGH O2 SAT (OXYGEN SATURATION)
Warning >> at 80 to 99% (240 OTU)
Alarm >> at 100% (300 OTU)

Warning
When O$_2$ reaches the Warning Level, the audible alarm sounds and the O2 SAT (saturation) value will flash in place of the DTR (Dive Time Remaining). The DTR will be restored when the audible alarm is silenced.

DURING AUDIBLE ALARM   **AFTER AUDIBLE ALARM**

flashing

DTR restored,
showing O2 min
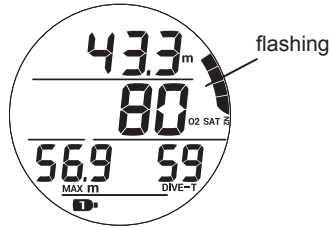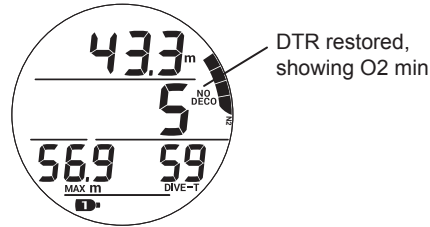
Alarm
If O2 SAT reaches the Alarm level, the audible alarm sounds. At the same time, the up arrow and the O2 SAT value will flash in place of DTR until surfacing.
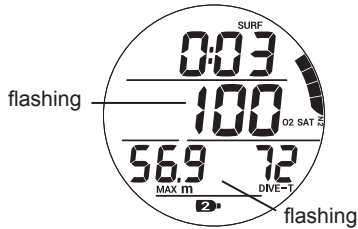
flashing

flashing

Warning During Decompression
When O2 SAT reaches the Warning Level, the audible alarm sounds and the O2 SAT value will flash in place of Time To Surface. The Time To Surface will be restored when the audible alarm is silenced.

DURING AUDIBLE ALARM
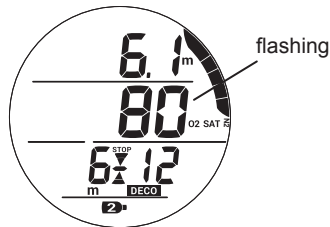
flashing

Alarm During Decompression
When O2 SAT reaches the Alarm Level, the audible alarm sounds and the O2 SAT value will flash in place of Time To Surface until surfacing.

flashing
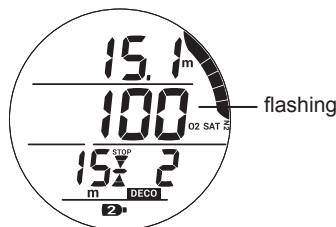
Alarm On Surface

• If O2 SAT is 100% upon surfacing while in No Decompression, O2 SAT 100% will flash until the O2 SAT value decreases below 100%.

• If you surface due to 100% O2 without having completed the Decompression obligation, the full N2 bar graph and O2 value (100) will flash with O2SAT icons for the first 10 minutes, then operation will enter Violation Gauge Mode.

SURFACE,
100% O2 SAT

flashing
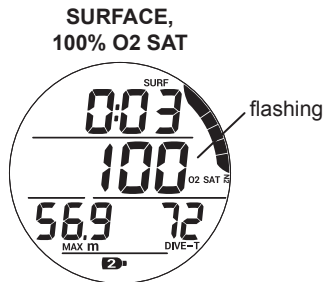
GAUGE MODE

ON THE SURFACE BEFORE A DIVE

There are two Gauge Surface Main screens. The first screen displays when there have been no dives yet or the surface interval after a dive has exceeded 10 min. The second screen displays only during the first ten minutes after a dive.

GAUGE SURF MAIN
(no dive yet or > 10 min post dive)

Surface Time hr:min

SURF
0:36
GAUG
4

mode

dive #,
0 for none yet

Bluetooth ON

DIVE

GAUGE SURF MAIN
(<10 minutes post dive)

Surface Time hr:min

SURF
0:02

5 1.2   1 17

MAX m   DIVE-T

elapsed dive time (min)

max depth

GAUGE STANDBY MODE
(no previous dive)

SURF
0:14

GAUGE STANDBY MODE
(post dive)

FLY
23:50

hr:min countdown till recommended safe flight time

back to Main
FLY
ALT 1

to Watch Mode

back to Main
LAST DIVE 3*
LAST DIVE 2*
LAST DIVE 1

SURF
0:05
GAUG
0

DIVE

LOG
SET MENU
DC INFO
DONE (EXIT)

to select an option

exit menu

to Watch Mode

backlight

*Bypass Last Dive 2 and 3 screens if no dive yet.

NOTE: Gauge Surface ALT screens and Menu options are similar to those described previously for Dive Mode. See the Dive Surface Mode chapter for further details. Features unique to Gauge Mode are described in the following sections.

INITIATING A DIVE

With the i200C in Gauge Mode, a dive will commence upon descending to 1.5 m (5 ft) for longer than 5 seconds. Below is a diagram to help you navigate Gauge Dive Mode functions. The dive will end and revert to Surface Mode upon ascent to 0.9 m (3 ft) of depth for at least 1 second.

GAUGE DIVE MAIN

ALT 1*
ALT 2
back to Main

*Bypassed if Run Timer is not currently displayed on the Main Screen.

**See Run Timer section for further details.

display/remove run timer**

acknowledge alarm

backlight
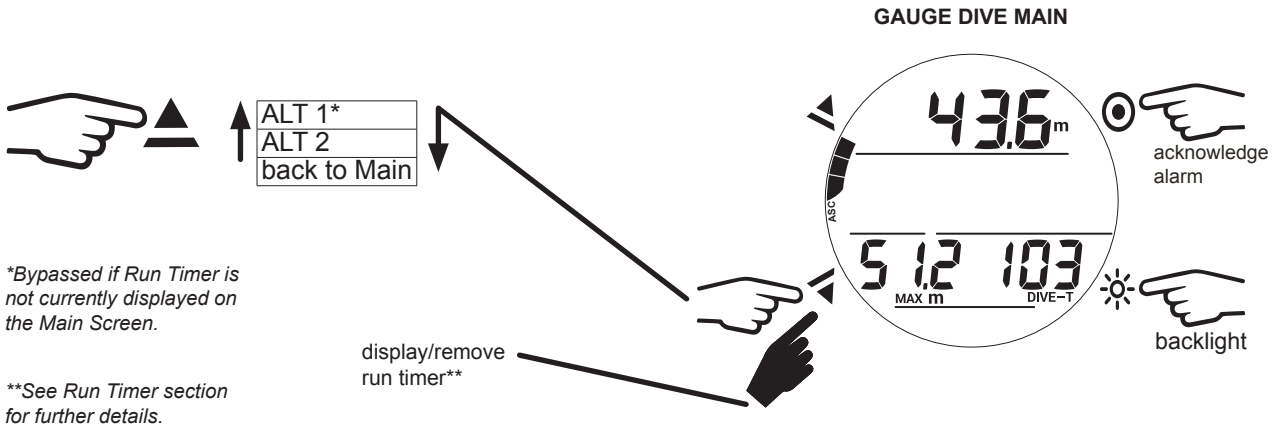
GAUGE DIVE MAIN

The Gauge Dive Main provides basic information including depth, dive time, max depth, and ascent rate during the dive.

**GAUGE DIVE MAIN
(Run Timer not displayed)**

depth

ascent bar graph

max depth

elapsed dive time
0 - 999 min
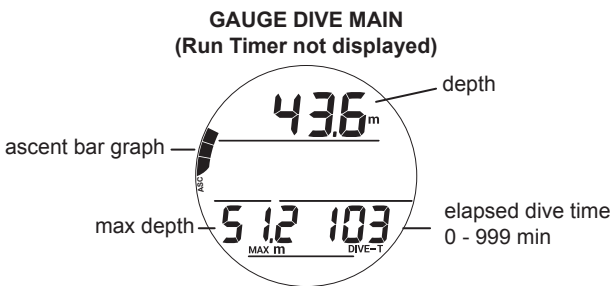
GAUGE DIVE ALT 1

This screen only displays when the Run Timer is displayed on the Dive Main screen. Otherwise, it is bypassed. It is equal to the Gauge Dive Main screen.
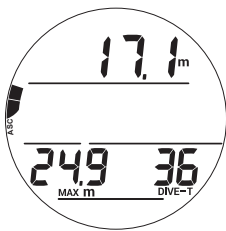
GAUGE DIVE ALT 2

This screen simply tells you the current time of day and ambient temperature.

RUN TIMER

The Gauge Mode allows for a Run Timer to be added or removed from the Gauge Dive Main screen by pressing and holding the ▽ (Down) button.

📃 **NOTE: Once the Run Timer is added and started, it can be removed and continue to run in the background until it is again added. Though it can only be started and stopped while it is being displayed.**
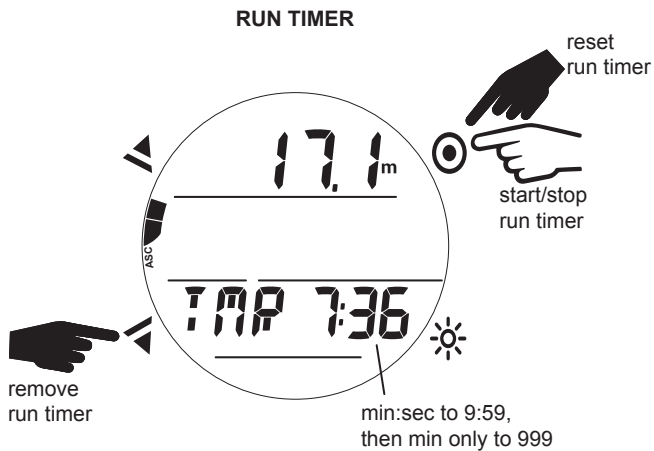
RUN TIMER

reset
run timer

start/stop
run timer

remove
run timer

min:sec to 9:59,
then min only to 999

DELAYED VIOLATION 3 (DV3)

If you descend deeper than the maximum functional depth*, the audible alarm will sound and the alarm LED will flash. At the same time, the up arrow will flash and depth will only indicate dashes signifying that you are too deep. The max depth will also be represented by dashes.

The maximum functional depth (100 m / 330 ft) is the depth at which the i200C can properly perform calculations or provide accurate display information.

Upon ascending above the maximum functional depth, current depth will be restored, however, max depth will continue to be displayed as dashes for the remainder of that dive. The Log for that dive will also display dashes for max depth.

flashing
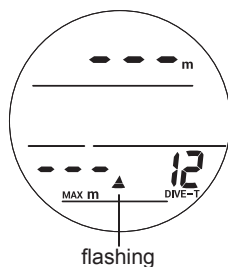
FREE MODE

FREE DIVE MODE DETAILS

- Although breathing apparatus is not utilized for free dive activities, nitrogen tissue loading remains a factor. Nitrogen loading is calculated based upon a fixed FO_2 of Air.
- Since a user has the option of alternating between SCUBA and free dive activities within a 24 hour period, nitrogen calculations and the displayed value of No Decompression Dive Time Remaining are carried over from one operating mode to the other, which permits the user to maintain awareness of nitrogen absorption and off-gassing status.
- The mathematical models currently used in the i200C are based on no decompression/decompression multilevel repetitive dive schedules.
- These algorithms do not take into account the physiological changes associated with the high pressures that competitive type free diving can expose a diver to.

⚠ WARNINGS:

- **Ensure that you know which operating mode is selected (Dive, Gauge, or Free) prior to commencing any dive.**
- **Conducting Free dives within a 24 hour period after conducting SCUBA dives, combined with the effects of multiple rapid free dive ascents, increases your risk of decompression sickness. Such activities may result in accelerated entry into decompression which could cause serious injury or death.**
- **Combining competitive type free dive activities that involve multiple descents/ascents with activities utilizing SCUBA during the same 24 hour period is not recommended. Presently, there is no data relating to such activities.**
- **It is highly recommended that anyone planning to become involved in competitive type free dive activities obtain proper instruction and training from a recognized free diving trainer. It is imperative that the physiological affects be understood and the diver is physically prepared.**

ON THE SURFACE BEFORE A DIVE

There are two Free Surface Main screens. The first screen displays when no dives have been made or greater than one minute after surfacing. The second screen displays only during the first minute after a dive.

FREE SURF MAIN
(no dive yet or > 1 min post dive)

mode

Surface Time min:sec up to 59:59, then hr:min

Bluetooth ON

dive # up to 99, 0 for none yet

FREE SURF MAIN
(< 1 min post dive)

residual nitrogen

temperature

elapsed dive time min:sec

FREE STANDBY MODE

back to Main
ALT2
ALT 1

to Watch Mode

FREE MAIN

to select an option

exit menu

to Watch Mode

CDT
SET FREE ALARMS
SET MODE
DONE (EXIT)

backlight
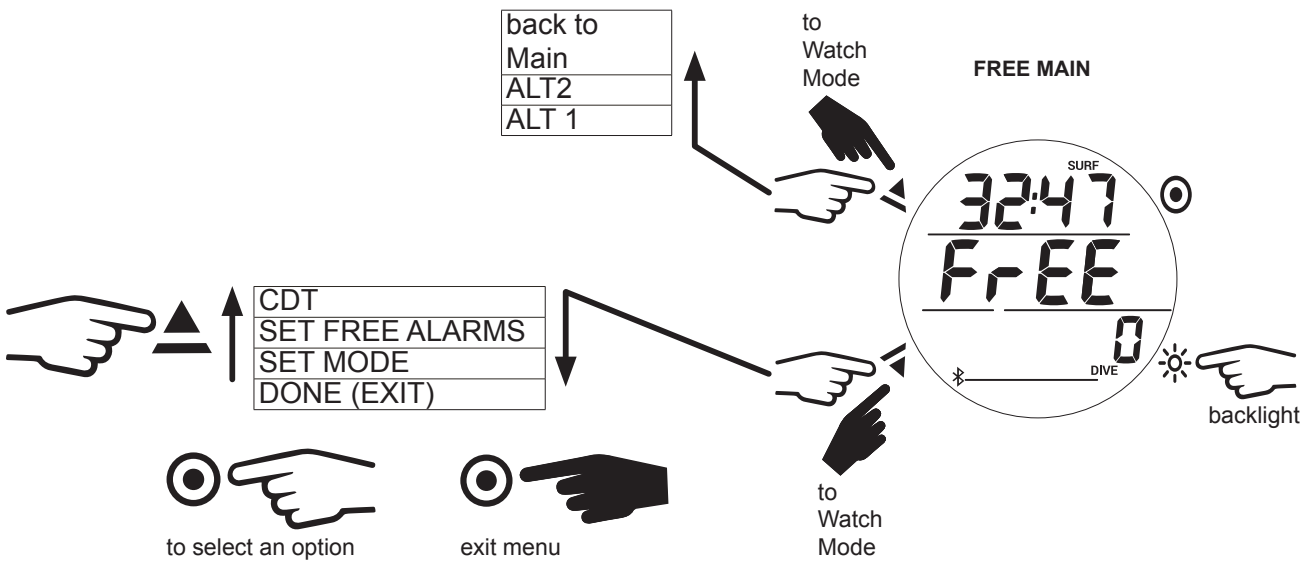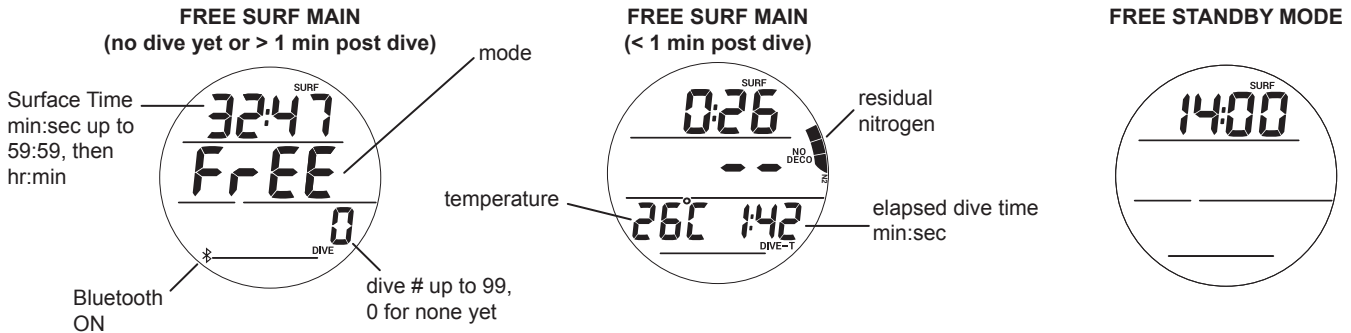
ALT 1

This screen displays data from the previous dive.

Surface Interval min:sec up to 59:59, then hr:min

max depth

elapsed dive time min:sec
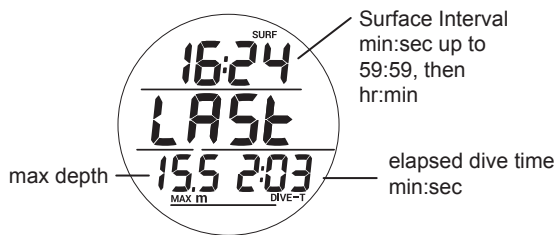
ALT 2

This screen displays current time of day, temperature, and elevation.

Watch Default Time

temperature

elevation
(EL2 - EL7, blank if sea level)
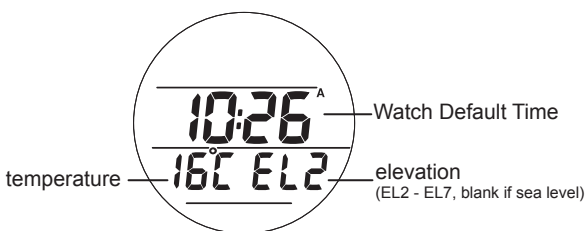
COUNTDOWN TIMER (CDT)

The i200C allows you to set a CDT time from 0:01 - 59:59 (min:sec). On the surface the CDT must be started and stopped in the CDT Status screen by selecting ON or OFF. The CDT will run in the background, while on the surface and during dives, until it counts down to 0:00, or it is turned OFF. When a set CDT time reaches 0:00, the audible will sound. During which time the graphic CDT will be displayed flashing on the Surface or Dive Main until the audible is silent.

📘 **NOTE: Setting the CDT does not start the countdown. You must select ON in the CDT Status screen to start the CDT.**

CDT STATUS LEAD-IN

to Free Surf Main — to CDT Status

to Set Free Alarms

CDT STATUS

toggle setting — to select

toggle setting — OFF, ON, or SET

SET CDT

increase value — to save min/sec

decrease value — min:sec

CDT ALARM TRIGGERED
(on surface, during audible alarm)

flashing
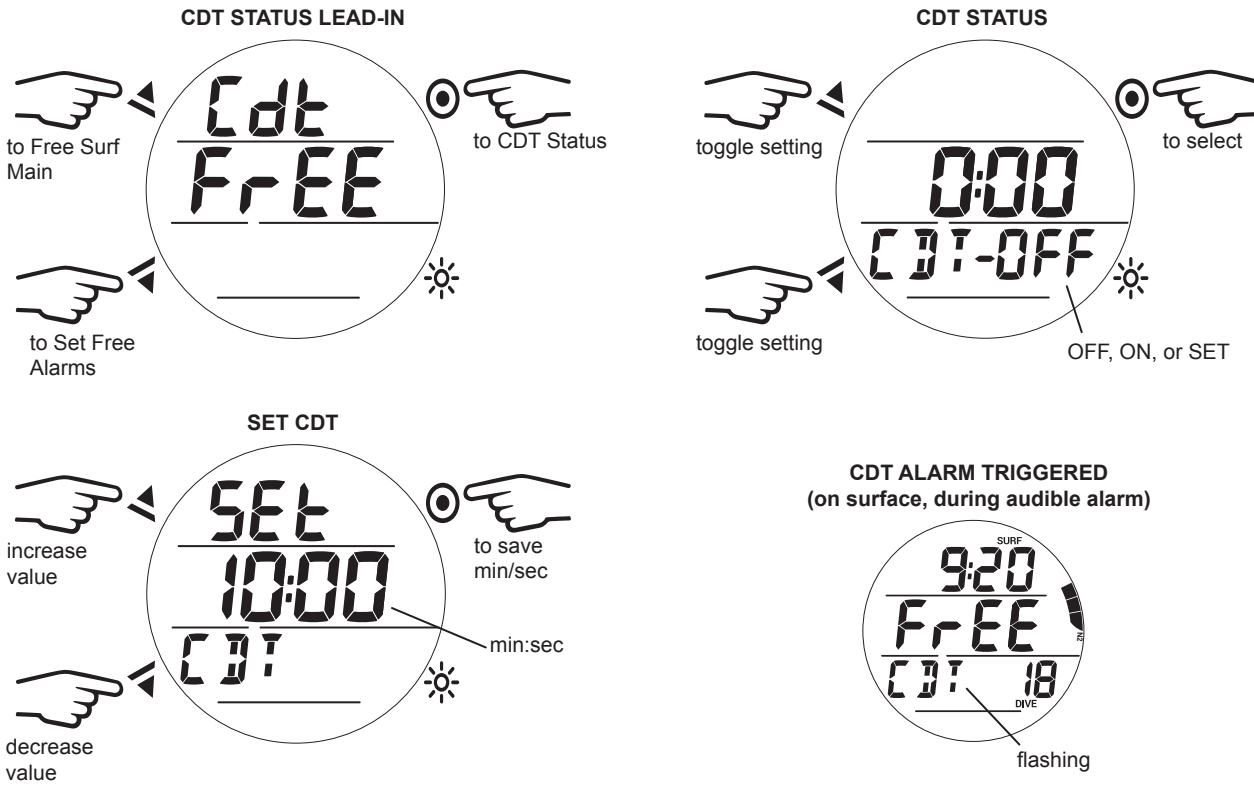
SET FREE ALARMS

Within this submenu you can customize the following Free Mode alarm settings.

SET FREE ALARMS LEAD-IN

to CDT — to Set EDT Alarm

to Set Mode

1. Elapsed Dive Time Alarm

The EDT (Elapsed Dive Time) Alarm sounds the audible alarm every 30 seconds while underwater in Free Dive mode.

toggle setting

to select

toggle setting

OFF or ON

**ELAPSED DIVE TIME
ALARM TRIGGERED**

8.6 m

77 NO DECO

flashing —— E D T 1:00 —— flashing

DIVE-T
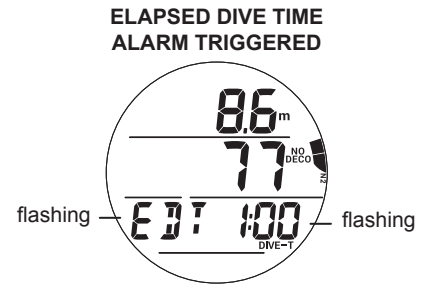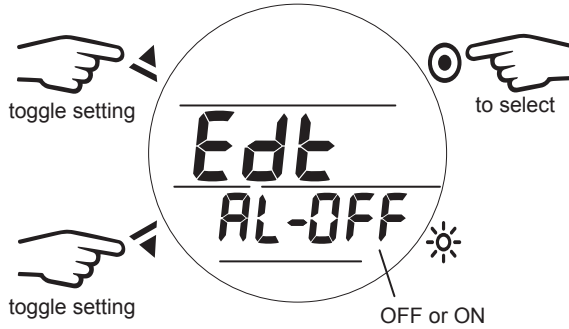
2. Depth Alarms 1-3

There are 3 Free Depth Alarms that can be set at progressively deeper depths, in intervals of 1 m (10 ft).

NOTE: Each successive Depth Alarm can only be set deeper than the Depth Alarm that precedes it. For example: If Depth Alarm 1 is set for 10 m then Depth Alarm 2 settings start at 11 m.

**SET DEPTH ALARM 1
(Depth Alarm 2 & 3 are similar)**

increase value

SEt

to select

decrease value

OFF-dA1

OFF or 10 - 100 m
(30 - 330 ft)

Depth Alarm 1 (2, 3)

**DEPTH ALARM 2 TRIGGERED
(Depth Alarm (1,3) similar)**

21.3 m —— flashing

56 NO DECO

flashing —— DA2 1:21

DIVE-T
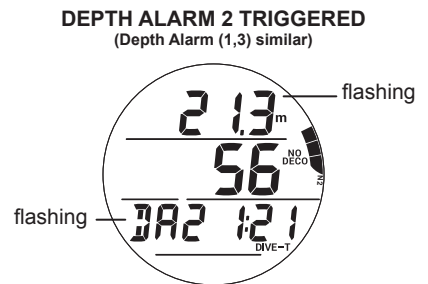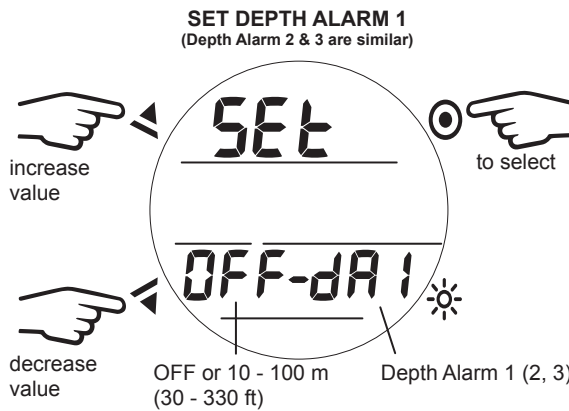
SET MODE (OPERATION MODE)

This feature functions the same as in Dive Mode, see pg. 37.

DONE SCREEN (FREE SURFACE MAIN MENU)

The Done Screen is a gateway to exit the Free Surface Main Menu and return to the Free Surface Main Screen.

to Set Mode

exit menu, return to Free Surface Main

DON E

to CDT
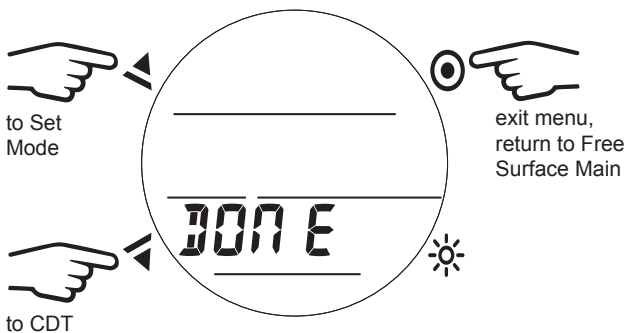
INITIATING A DIVE

With the i200C in Free Mode, a dive will commence upon descending to 1.5 m (5 ft) for longer than 5 seconds. Below is a diagram to help you navigate Free Dive Mode functions. The dive will end and revert to Surface Mode upon ascent to 0.9 (3 ft) of depth for at least 1 second.

FREE DIVE MAIN

acknowledge
alarm

ALT 1
ALT 2
back to Main

backlight
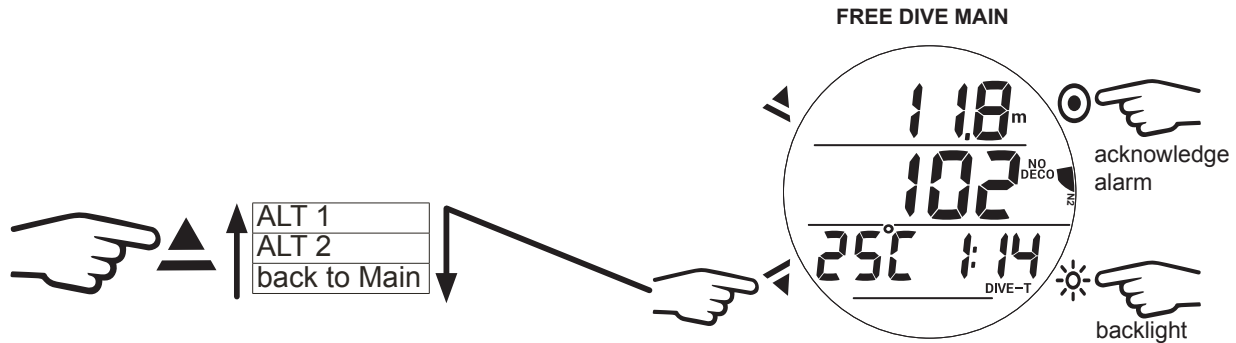
FREE DIVE MAIN

The Free Dive Main provides basic information including depth, no decompression time, dive time, temperature and nitrogen loading during the dive.

depth

No Decompression Time Remaining
0 - 99 min, all times greater than 99 display as 99

Nitrogen Loading
Bar Graph

elapsed dive time
min:sec

temperature
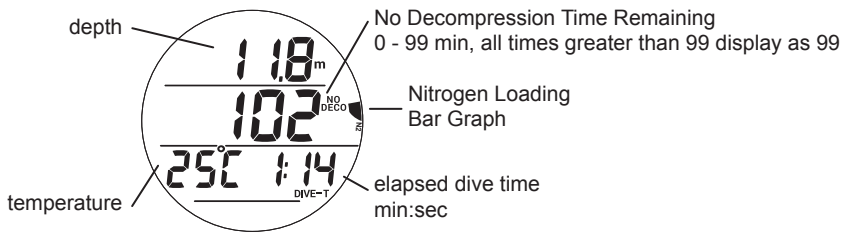
FREE DIVE ALT 1

This screen Displays the Countdown Timer status. The Countdown Timer can be started and stopped in this screen by selecting ON or OFF. After the time runs down to 0:00, the countdown timer will reset to the original preset time.

🔲 **NOTE: The Countdown Timer must be preset on the surface while in the Free Surface Mode.**

turn ON/OFF

min:sec

to ALT 2

ON = Start
OFF = Stop
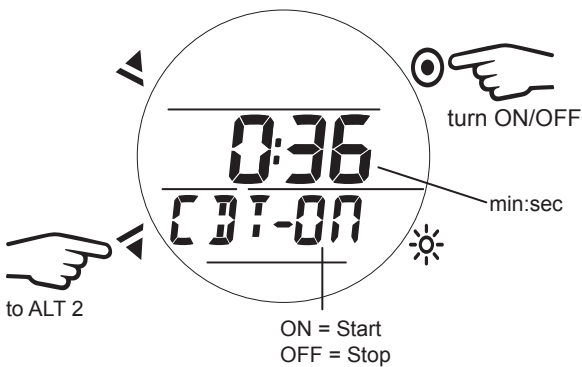
FREE DIVE ALT 2

This screen simply tells you the max depth and current time of day.

HIGH NITROGEN ALARMS

When nitrogen increases to the caution level (4 N2 Bar Graph segments), the audible alarm will sound 3 sets of 3 beeps. During this time the N2 Bar Graph segments will flash on the Free Dive Main screen.

If nitrogen continues to increase to the Decompression level (all 5 N2 Bar Graph segments), the audible alarm will sound again. At this time the N2 Bar Graph segments will flash, and NO DECO (no decompression) time will be displayed as 0 min.

When the audible alarm is silenced, the N2 Bar Graph and NO DECO (no decompression), values are removed. Then the message VIO (violation) and the Up Arrow flashes until on the surface.

After surfacing, the graphic VIO (violation) flashes. Then after 1 minute on the surface, the dive computer operation locks into Violation Gauge Mode for 24 hours. Access to Watch Mode will be as usual.

N2 BAR GRAPH ALARM
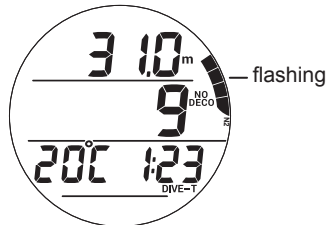
DECOMPRESSION ENTRY
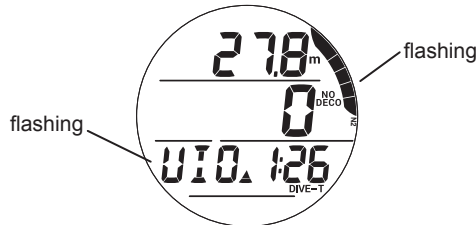
**VIOLATION AFTER
1 MIN ON THE SURFACE**

REFERENCE

UPLOADING/DOWNLOADING DATA

As previously described (p. 35), the i200C can be paired using the Bluetooth® feature. This requires a mobile device with Bluetooth® running Diverlog+ software.

The Settings Upload portion of the program can be used to set/change the Gases, Set AL group (Alarms), Set UTIL group (Utilities), and Set TIME group (Time/Date) using the same Interface System. The Mode settings must be entered using the i200C button controls.

Information available for retrieval* (download) from the i200C includes items such as dive number, surface interval time, depth, dive time, start dates/time, lowest temperature, sampling rate, set points, N2 Bar Graph, and ASC Bar Graph.

FREE Dive information is only available using the DiverLog + application.

Refer to the Diverlog+ software application for further instruction on linking your i200C to your mobile device.

CARE AND CLEANING

Protect your i200C from shock, excessive temperatures, exposure to chemicals, and tampering. Protect the lens against scratches with an Instrument Lens Protector. Small scratches will naturally disappear underwater.
• Soak and rinse the i200C in fresh water at the end of each day of diving, and check to ensure that the areas around the Low Pressure (Depth) Sensor, wet contacts, and buttons are free of debris or obstructions.
• To dissolve salt crystals, use lukewarm water or a slightly acidic bath (50% white vinegar/50% fresh water). After removal from the bath, place the i200C under gently running fresh water. Towel dry before storing.
• Keep your i200C cool, dry, and protected during transport.

wet contact

wet contacts

low pressure sensor

SERVICE

⚠️ **WARNING: At a minimum, annually check the altitude reading on the ALT 2 screen (p. 14, 69) and Pre-Dive Planner (p. 28, 68) for accuracy. If your i200C is ever out of calibration (incorrect elevation reading, incorrect No Deco Dive Times in the planner, or showing a depth reading at the surface) or displays an error code message (EEP, ALT, CAL, ERR, CSM, A-D), it must be serviced at the factory before use.**

If required to return your i200C to the USA factory:
• Obtain an RA (Return Authorization) number by contacting http://www.aqualung.com/us/support/contact-us or (760) 597-5000
• Record all dive data in the Log and/or download the data stored in memory. All data will be erased during factory service.
• Package it using a protective cushioning material.
• Include a legible note stating the specific reason for return, your name, address, daytime phone number, serial number(s), and a copy of your original sales receipt and Warranty Registration.
• Send freight prepaid and insured using a traceable method.
• Non-warranty service must be prepaid. COD is not accepted.
• Additional information is available on the Aqua Lung web site AquaLung.com or on the local Aqua Lung web site that serves your global region.

⚠️ **CAUTION: The procedures that follow must be closely adhered to. Damage due to improper battery replacement is not covered by the i200C's warranty.**

BATTERY REPLACEMENT

📘 **NOTE: The procedures that follow must be closely adhered to avoid entrance of water into the unit. Damage due to improper battery replacement (or subsequent leakage of moisture into the unit) is not covered by the i200C's warranty.**

📘 **NOTE: The i200C can be sent to Aqua Lung, Regional Distributor, or Authorized Dealer Service Facility for proper battery change service which includes pressure (depth) and leak testing to the max operating depth. Standard charges for service will apply.**

The battery compartment should be opened only in a dry and clean environment with extreme care taken to prevent the entrance of moisture or dust.

As an additional precautionary measure to prevent formation of moisture in the battery compartment, it is recommended that the battery be changed in an environment equivalent to the local outdoor temperature and humidity (e.g., do not change the battery in an air conditioned environment then take it outside during a hot sunny day).

Inspect the buttons, lens, and housing to ensure they are not cracked or damaged. If there is any sign of moisture in the i200C, **DO NOT** attempt to use it for diving until it receives proper service by the Aqua Lung factory or an authorized regional distributor.

Data Retention
When the battery is removed, settings and nitrogen/oxygen calculations for repetitive dives will be retained in volatile memory until a new battery is installed.

All parts needed for the battery change are provided in the i200C Battery Kit available from your Aqua Lung Dealer.

Battery Removal
• It is not necessary to remove the wrist straps.
• Locate the battery compartment on the back of the unit.
• Using a screwdriver carefully remove the two retaining screws.
• Lift the cover and O-ring up and away from the housing.
• Turn the case to one side to drop the battery into your hand. If necessary, gently loosen it with the tip of your finger. **DO NOT** use tools to pry it out, or short the positive (+) top of the Battery to the negative (-) contact under it.
• Discard or recycle the battery according to local regulations governing disposal of lithium batteries.

REMOVE SCREWS　　　　　　**COVER REMOVAL**　　　　　　**BATTERY REMOVAL**

Inspection
• Closely check all of the sealing surfaces for any signs of damage that might impair proper sealing.
• Inspect the button, lens, and housing to ensure they are not cracked or damaged.

⚠ **WARNING: If damage or corrosion is found, return your i200C to an authorized Aqua Lung dealer, and DO NOT attempt to use it until it has received factory prescribed service.**

• Remove the cover O-ring. Discard, and **DO NOT** attempt to reuse it.

⚠ **CAUTION: DO NOT use tools to remove the O-ring. To ensure proper sealing, O-ring replacement is required each time the battery is replaced.**

REMOVE O-RING
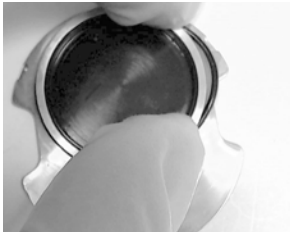
Battery Installation

⚠ **CAUTION: The O-ring must be a genuine Aqua Lung part that can be purchased from an authorized Aqua Lung dealer. Use of any other O-ring will void the warranty.**

• Very lightly lubricate the new O-ring with silicone grease and place it in the O-ring groove of the cover.
• Place a new 3 volt type CR2430 lithium battery, negative side down into the battery cavity. Ensure that it is evenly positioned.
• Carefully place the battery cover (with O-ring) into position on the rim of the battery compartment, then press it evenly and completely down into place.
• Maintain the battery cover securely in place, and carefully install the retaining screws with a screwdriver.

REPLACE O-RING	**INSTALL BATTERY**	**INSTALL COVER**	**REPLACE SCREWS**

Testing
• Activate the unit and ensure that the LCD is clear and sharp in contrast. If any portions are missing or appear dim, or if a low battery condition is indicated, return the i200C to an authorized Aqua Lung dealer for evaluation before use.
• Verify all set points prior to diving.

ALTITUDE SENSING AND ADJUSTMENT

Prior to the first dive of a series of repetitive dives, Altitude (i.e., ambient pressure) is measured upon activation of Dive Surface Mode and every 15 minutes until a dive is made or operation reverts to Watch Mode.

• While it is operating in Watch Mode after a dive, measurements are taken every 15 minutes during the 24 hour period after surfacing.
• Measurements are only taken when the unit is dry.
• Two readings are taken, the second reading 5 seconds after the first. The readings must be within 1 foot (30 cm) of each other to record that ambient pressure as the current altitude.
• No adjustments are made during any time that the wet contacts are bridged.

When diving in high altitude waters from 916 to 4,270 m (3,001 to 14,000 ft), the i200C automatically adjusts to these conditions providing corrected depth, and reduced No Deco and O2 Times at intervals of 305 m (1,000 ft).

At an elevation of 916 m (3,001 ft), Depth calibration automatically changes from feet of seawater to feet of fresh water. This is the first adjustment to the algorithm. When the Conservative Factor feature is set to ON, No Deco Times are calculated based upon the next higher 915 m (3,000 ft) Altitude. All adjustments for altitudes greater than 3,355 m (11,000 ft) are then made to allowable dive times for 4,270 m (14,000 ft). At Sea Level, calculations are based upon an altitude of 6,000 ft.

The i200C will not function as a dive computer above 4,270 m (14,000 ft).

TECHNICAL DATA

NO DECOMPRESSION TIME LIMITS

Z+ ALGORITHM >> NDLS (HR:MIN) AT ALTITUDE (METRIC)

Altitude (meters) Depth (M)	0 to 915	916 to 1220	1221 to 1525	1526 to 1830	1831 to 2135	2136 to 2440	2441 to 2745	2746 to 3050	3051 to 3355	3356 to 3660	3661 to 3965	3966 to 4270
9	3:37	2:41	2:31	2:23	2:16	2:10	2:04	1:59	1:54	1:50	1:43	1:37
12	1:55	1:27	1:21	1:15	1:12	1:08	1:05	1:03	1:00	0:58	0:55	0:54
15	1:08	0:55	0:53	0:51	0:49	0:47	0:44	0:42	0:39	0:37	0:36	0:34
18	0:50	0:39	0:37	0:35	0:33	0:32	0:30	0:28	0:26	0:24	0:23	0:22
21	0:36	0:28	0:26	0:24	0:23	0:21	0:20	0:19	0:18	0:17	0:16	0:16
24	0:27	0:20	0:19	0:18	0:17	0:16	0:15	0:14	0:13	0:12	0:11	0:11
27	0:20	0:16	0:15	0:13	0:12	0:11	0:11	0:10	0:09	0:09	0:09	0:08
30	0:16	0:12	0:11	0:10	0:09	0:09	0:09	0:08	0:08	0:07	0:07	0:07
33	0:13	0:09	0:09	0:08	0:08	0:07	0:07	0:07	0:07	0:06	0:06	0:06
36	0:10	0:08	0:07	0:07	0:07	0:06	0:06	0:06	0:05	0:05	0:05	0:05
39	0:09	0:07	0:06	0:06	0:06	0:06	0:05	0:05	0:05	0:05	0:05	0:04
42	0:08	0:06	0:06	0:05	0:05	0:05	0:05	0:05	0:04	0:04	0:04	0:04
45	0:06	0:05	0:05	0:05	0:05	0:04	0:04	0:04	0:04	0:04	0:04	0:04
48	0:06	0:05	0:05	0:04	0:04	0:04	0:04	0:04	0:04	0:03	0:03	0:03
51	0:05	0:04	0:04	0:04	0:04	0:04	0:04	0:03	0:03	0:03	0:03	0:03
54	0:05	0:04	0:04	0:04	0:04	0:03	0:03	0:03	0:03	0:03	0:03	0:03
57	0:05	0:04	0:04	0:03	0:03	0:03	0:03	0:03	0:03	0:03	0:03	0:03

Z+ ALGORITHM >> NDLS (HR:MIN) AT ALTITUDE (IMPERIAL)

Altitude (feet) Depth (FT)	0 to 3000	3001 to 4000	4001 to 5000	5001 to 6000	6001 to 7000	7001 to 8000	8001 to 9000	9001 to 10000	10001 to 11000	11001 to 12000	12001 to 13000	13001 to 14000
30	3:17	2:30	2:21	2:14	2:08	2:02	1:57	1:52	1:47	1:39	1:34	1:29
40	1:49	1:21	1:15	1:11	1:08	1:05	1:02	1:00	0:57	0:55	0:53	0:51
50	1:05	0:53	0:51	0:49	0:47	0:44	0:42	0:39	0:37	0:35	0:34	0:33
60	0:48	0:37	0:35	0:33	0:32	0:30	0:28	0:26	0:24	0:23	0:22	0:21
70	0:35	0:26	0:24	0:23	0:21	0:20	0:19	0:18	0:17	0:16	0:16	0:14
80	0:26	0:19	0:18	0:17	0:16	0:15	0:14	0:13	0:12	0:11	0:11	0:10
90	0:19	0:15	0:14	0:13	0:12	0:11	0:10	0:10	0:09	0:09	0:08	0:08
100	0:16	0:11	0:10	0:10	0:09	0:09	0:08	0:08	0:07	0:07	0:07	0:07
110	0:12	0:09	0:08	0:08	0:08	0:07	0:07	0:07	0:06	0:06	0:06	0:05
120	0:10	0:08	0:07	0:07	0:07	0:06	0:06	0:06	0:05	0:05	0:05	0:05
130	0:08	0:07	0:06	0:06	0:06	0:05	0:05	0:05	0:05	0:05	0:04	0:04
140	0:07	0:06	0:05	0:05	0:05	0:05	0:05	0:04	0:04	0:04	0:04	0:04
150	0:06	0:05	0:05	0:05	0:05	0:04	0:04	0:04	0:04	0:04	0:04	0:03
160	0:06	0:05	0:05	0:04	0:04	0:04	0:04	0:04	0:04	0:03	0:03	0:03
170	0:05	0:04	0:04	0:04	0:04	0:04	0:03	0:03	0:03	0:03	0:03	0:03
180	0:05	0:04	0:04	0:04	0:03	0:03	0:03	0:03	0:03	0:03	0:03	0:03
190	0:04	0:04	0:04	0:03	0:03	0:03	0:03	0:03	0:03	0:03	0:03	0:00

ALTITUDE LEVELS

DISPLAY	RANGE: METERS (FEET)
SEA	0 to 915 (0 to 3,000)
EL2	916 to 1,525 (3,001 to 5,000)
EL3	1,526 to 2,135 (5,001 to 7,000)
EL4	2,136 to 2,745 (7,001 to 9,000)
EL5	2,746 to 3,355 (9,001 to 11,000)
EL6	3,356 to 3,965 (11,001 to 13,000)
EL7	> 3,965 (13,000)

OXYGEN EXPOSURE LIMITS
(from NOAA Diving Manual)

PO2 (ATA)	MAX DURATION SINGLE EXPOSURE (MIN)	MAX TOTAL DURATION 24 HOUR DAY (MIN)
0.60	720	720
0.70	570	570
0.80	450	450
0.90	360	360
1.00	300	300
1.10	240	270
1.20	210	240
1.30	180	210
1.40	150	180
1.50	120	180
1.60	45	150

SPECIFICATIONS

CAN BE USED AS
• Watch
• Dive Computer (Air or Nitrox)
• Digital Depth Gauge/Timer
• Free Dive Computer

DIVE COMPUTER PERFORMANCE
• Bühlmann ZHL-16C based Z+ algorithm
• Decompression in agreement with Bühlmann ZHL-16C
• No Decompression Deep Stops - Morroni, Bennett
• Decompression Deep Stops (not recommended) - Blatteau, Gerth, Gutvik
• Altitude - Bühlmann, IANTD, RDP (Cross)
• Altitude corrections and O2 limits based on NOAA tables

OPERATIONAL PERFORMANCE
Function: Accuracy:
• Depth   ±1% of full scale
• Timers   1 second per day

Dive Counter:
• DIVE/GAUGE displays Dives #1 to 24, FREE displays #1 to 99 (0 if no dive made)
• Resets to Dive #1, upon diving (after 24 hours with no dives)

Dive Log Mode:
• Stores 24 most recent DIVE/GAUGE dives in memory for viewing
• After 24 dives, adds 25th dive in memory and deletes the oldest dive

Altitude:
• Operational from sea level to 4,270 m (14,000 ft) elevation
• Measures ambient pressure every 30 minutes when inactive, upon activation, every 15 minutes while activated.
• Does not measure ambient pressure when wet.
• Compensates for Altitudes above sea level beginning at 916 m (3,001 ft) elevation and every 305 m (1,000 ft) higher.

Power:
• (1) 3 volt, CR2430, lithium battery (Panasonic or equivalent)
• Shelf life Up to 7 years (dependent on battery manufacturer)
• User replacement battery (annual recommended)
• Use Life 1 year or 300 dive hours if (qty: 2) 1 hour dives per dive day.

Battery Icon:
• Warning - icon on solid at 2.75 volts, Battery change recommended
• Alarm - icon on flashing at 2.50 volts, change the Battery

Operating Temperature:
• Out of the water - between -6.6 and 60 °C (20 °F and 140 °F).
• In the water - between -2.2 and 35 °C (28 °F and 95 °F).

Nitrogen Loading Bar Graph — segments
- No Decompression Normal Zone — 1 to 3
- No Decompression Caution Zone — 4
- Decompression Zone — 5 (all)

Ascent Rate

	Segments	MPM	FPM
• Normal zone	0	0 - 3	0 - 10
• Normal zone	1	3.5 - 4.5	11 - 15
• Normal zone	2	5 - 6	16 - 20
• Normal zone	3	6.5 - 7.5	21 - 25
• Caution zone	4	8 - 9	26 - 30
• Too Fast zone (flashing)	5 (all)	> 9	> 30

NUMERIC DISPLAYS:

	Range:	Resolution:
• Dive Number	0 to 24	1
• Depth	0 to 100 m (330 ft)	.1/1 M (1 FT)
	(0 - 99.9 M, > 99.9 then 100 M)	
• FO_2 Set Point	Air, 21 to 100 %	1 %
• PO_2 Value	0.00 to 5.00 ATA	0.01 ATA
• Dive Time Remaining	0 to 99 min, display 99 if >99 min	1 minute
• Time To Surface	0 to 99 min, display - - if >99 min	1 minute
• No Decompression Deep Stop Time	2:00 to 0:00 min:sec	1 second
• No Decompression Safety Stop Time	5:00 to 0:00 min:sec	1 second
• Decompression Stop Time	0 to 999 min	1 minute
• DIVE/GAUGE Elapsed Dive Time	0 to 999 min	1 minute
• Free Elapsed Dive Time (< 9 min)	0:00 to 9:59 min:sec	1 second
• Free Elapsed Dive Time (≥ 10 min)	10 to 999 min	1 minute
• Surface Interval Time	0:00 to 23:59 hr:min	1 minute
• Free Surface Interval Time	0:00 to 59:59 min:sec,	1 second
	then 1:00 to 23:59 hr:min	1 minute
• Time to Fly & Desaturate	23:50 to 0:00 hr:min*	1 minute
	starting 10 min after the dive	
• Temperature	-18 to 60° C (0 to 99° F)	1°
	if outside of temp range, then displays - -	
• Time of Day	0:00 to 23:59 hr:min	1 minute
• Free Countdown Timer	59:59 to 0:00 min:sec	1 second
• Violation Countdown Timer	23:50 to 0:00 hr:min	1 minute

Max Functional Depth: — Limit:
- Dive/Free/Gauge — 100 m (330 ft)

ABBREVIATIONS/TERMS

ACT = Activation
AL = Alarm
ALT = Alternate
ASC = Ascent Rate
ATA = Standard Atmosphere (unit)
AUD = Audible Alarm
AWAY = Secondary Time Zone
BATT = Battery
CDT = Countdown Timer
CF = Conservative Factor
CHNG = Change
CHRO = Chronograph
DA/dA = Depth Alarm (Free Dive)
DCS = Decompression Sickness
DECO = Decompression
DFLT = Default
DS = Deep Stop
DSI = Dive Surface Interval
DTR = Dive Time Remaining
DUAL = Dual Time Zones Displayed
DURA = Duration (backlight)
EDT = Elapsed Dive Time
EL = Elevation (altitude)
ERR = Error
FLY = Time To Fly
FO2 = Fraction of Oxygen (%)
FORM = Format (date, time)
FREE = Free Dive Mode
FT = Feet (depth)
GAU/GAUG/GAUGE = Digital Gauge Dive Mode
GLO = backlight
GTR = Gas Time Remaining
H2O = Water
HIST/HIS = History

HOME = Home Time Zone
IMP = Imperial (measure)
LAST = Previous (dive)
LO = Low (battery)
M = Meters (depth)
MET = Metric
MFD = Maximum Functional Depth (equipment limits)
MIN = Minutes (time)
MOD = Maximum Operating Depth
N2 = Nitrogen
N2BG = Nitrogen Bar Graph
NDL = No Decompression Limit
NDC = No Decompression (DTR)
NO DECO = No Decompression (DTR)
O2 = Oxygen
O2 MIN = Oxygen Time Remaining (DTR)
O2 SAT = Oxygen Saturation
PLAN = Dive Planner
PO2 = Partial Pressure of O2 (ATA)
SAFE = Safety (stop)
SAT = Desaturation Time
SEA = Sea Level
SEC = Seconds (time)
SHO = Show
SLO = Slow Down
SN = Serial Number
SR = Sample Rate
SS = Safety Stop
SURF = Surface
TTS = Time To Surface
VIO/VIOL = Violation

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