wisdom

DIVE COMPUTER MANUAL

CONTENTS

Full Display4
Warranty5
Notices
FEATURES and DISPLAYS 7
Features and Displays
Intuitive Displays
intuitive Displays
Day Oracha
Bar Graphs
Nitrogen Bar Graph9
Oxygen (O2) Bar Graph9
Variable Ascent Rate Indicator9
Informational Dianlaya
Tank Pressure Displays
Tank Pressure Display
Depth Displays
Time and Date Displays10
Temperature Display10
Asselffels Alexand
Audiple Alarm
Backlight11
Power Supply11
Operating Temperature11
ACTIVATION AND SETUR
Activation 12
Activation
Push Button
Water Contact13
Diagnostic Mode13
Surface Screens
Time Screen13
Time/Wet Screens13
Data Screens14
Plan Screens
Last Dive Screen16
Log Mode 16
History Mode 18
Simulator 18
Simulator
PC Interface (Opioad/Download)20
Entering Settings 20
Set 1 Group (Modes/Basics) 20
Set Converting Mode
• Set Operating mode
• Set PO2 Alarm value
• Set FO2 Value22
Set FO2 Default On/Off
Set 2 Group (Alerma)
Set 2 Group (Alarms)
• Set All Alarms Un/Utt
Set Ascent Alarm On/Off23
Set Depth Alarm On/Off23
Set Depth Alarm Value
Set Turn Pressure Alarm On/Off
Set Turn Pressure Alarm Value 24

CONTENTS (continued)

Set End Pressure Alarm On/Off25
Set End Pressure Alarm Value25
Set Reserve Time Alarm On/Off25
Set Reserve Time Alarm Value26
Set Deco Alarm On/Off26
Set PO2 Alarm On/Off
Sot 3 Group (Utilities)
• Set Wet Activation On/Off 27
Set Units of Measure 27
Set Sample Rate Value
Set Deep Stop On/Off
Set 4 Group (Date/Time)28
Set Hour Format
Set Hour/Minute
Set Year/Month/Day29
DIVE MODES 31
Dive Time Remaining 32
Onerational Dive Modes 33
No Decompression Dive Mode 33
No Deco Deen Ston 34
No Deco Safety Ston 35
Digital Gauge Mode
High PO2 Dive Mode
High PO2 Dive Mode
High PO2 Dive Mode
High PO2 Dive Mode36High O2 Dive Mode36Decompression Dive Mode36Violation Modes37
High PO2 Dive Mode 36 High O2 Dive Mode 36 Decompression Dive Mode 36 Violation Modes 37 CARE and MAINTENANCE 40
High PO2 Dive Mode 36 High O2 Dive Mode 36 Decompression Dive Mode 36 Violation Modes 37 CARE and MAINTENANCE 40 Care and Cleaning 41
High PO2 Dive Mode 36 High O2 Dive Mode 36 Decompression Dive Mode 36 Violation Modes 37 CARE and MAINTENANCE 40 Care and Cleaning 41 Inspections and Service 41
High PO2 Dive Mode 36 High O2 Dive Mode 36 Decompression Dive Mode 36 Violation Modes 37 CARE and MAINTENANCE 40 Care and Cleaning 41 Inspections and Service 41 Battery Replacement 41
High PO2 Dive Mode 36 High O2 Dive Mode 36 Decompression Dive Mode 36 Violation Modes 37 CARE and MAINTENANCE 40 Care and Cleaning 41 Inspections and Service 41 Battery Replacement 41
High PO2 Dive Mode 36 High O2 Dive Mode 36 Decompression Dive Mode 36 Violation Modes 37 CARE and MAINTENANCE 40 Care and Cleaning 41 Inspections and Service 41 Battery Replacement 41 REFERENCE MATERIAL 43
High PO2 Dive Mode 36 High O2 Dive Mode 36 Decompression Dive Mode 36 Violation Modes 37 CARE and MAINTENANCE 40 Care and Cleaning 41 Inspections and Service 41 Battery Replacement 41 REFERENCE MATERIAL 43 Decompression Model 44
High PO2 Dive Mode 36 High O2 Dive Mode 36 Decompression Dive Mode 36 Violation Modes 37 CARE and MAINTENANCE 40 Care and Cleaning 41 Inspections and Service 41 Battery Replacement 41 REFERENCE MATERIAL 43 Decompression Model 44 Tissue Compartment Control 44
High PO2 Dive Mode36High O2 Dive Mode36Decompression Dive Mode36Violation Modes37CARE and MAINTENANCE40Care and Cleaning41Inspections and Service41Battery Replacement41REFERENCE MATERIAL43Decompression Model44Tissue Compartment Control44No Decompression Limits44
High PO2 Dive Mode36High O2 Dive Mode36Decompression Dive Mode36Violation Modes37CARE and MAINTENANCE40Care and Cleaning41Inspections and Service41Battery Replacement41REFERENCE MATERIAL43Decompression Model44Tissue Compartment Control44No Decompression Limits44Oxygen Exposure Limits44
High PO2 Dive Mode 36 High O2 Dive Mode 36 Decompression Dive Mode 36 Violation Modes 37 CARE and MAINTENANCE 40 Care and Cleaning 41 Inspections and Service 41 Battery Replacement 41 REFERENCE MATERIAL 43 Decompression Model 44 Tissue Compartment Control 44 No Decompression Limits 44 Attitude Diving 45
High PO2 Dive Mode36High O2 Dive Mode36Decompression Dive Mode36Violation Modes37CARE and MAINTENANCE40Care and Cleaning41Inspections and Service41Battery Replacement41REFERENCE MATERIAL43Decompression Model44Tissue Compartment Control44No Decompression Limits44Oxygen Exposure Limits44Altitude Diving45Flying After Diving45
High PO2 Dive Mode 36 High O2 Dive Mode 36 Decompression Dive Mode 36 Violation Modes 37 CARE and MAINTENANCE 40 Care and Cleaning 41 Inspections and Service 41 Battery Replacement 41 REFERENCE MATERIAL 43 Decompression Model 44 Tissue Compartment Control 44 No Decompression Limits 44 Attitude Diving 45 Flying After Diving 45 Clear (Reset) Feature 46
High PO2 Dive Mode 36 High O2 Dive Mode 36 Decompression Dive Mode 36 Violation Modes 37 CARE and MAINTENANCE 40 Care and Cleaning 41 Inspections and Service 41 Battery Replacement 41 REFERENCE MATERIAL 43 Decompression Model 44 Tissue Compartment Control 44 No Decompression Limits 44 Attitude Diving 45 Flying After Diving 45 Clear (Reset) Feature 46
High PO2 Dive Mode 36 High O2 Dive Mode 36 Decompression Dive Mode 36 Violation Modes 37 CARE and MAINTENANCE 40 Care and Cleaning 41 Inspections and Service 41 Battery Replacement 41 REFERENCE MATERIAL 43 Decompression Model 44 Tissue Compartment Control 44 No Decompression Limits 44 Oxygen Exposure Limits 44 Altitude Diving 45 Flying After Diving 45 Clear (Reset) Feature 46 Compass Removal/Installation Instructions 46 Specifications 47
High PO2 Dive Mode 36 High O2 Dive Mode 36 Decompression Dive Mode 36 Violation Modes 37 CARE and MAINTENANCE 40 Care and Cleaning 41 Inspections and Service 41 Battery Replacement 41 REFERENCE MATERIAL 43 Decompression Model 44 Tissue Compartment Control 44 No Decompression Limits 44 Oxygen Exposure Limits 44 Altitude Diving 45 Flying After Diving 45 Clear (Reset) Feature 46 Compass Removal/Installation Instructions 46 Specifications 47 Glossary 50
High PO2 Dive Mode 36 High O2 Dive Mode 36 Decompression Dive Mode 36 Violation Modes 37 CARE and MAINTENANCE 40 Care and Cleaning 41 Inspections and Service 41 Battery Replacement 41 REFERENCE MATERIAL 43 Decompression Model 44 Tissue Compartment Control 44 No Decompression Limits 44 Oxygen Exposure Limits 44 Altitude Diving 45 Flying After Diving. 45 Compass Removal/Installation Instructions. 46 Specifications 47 Glossary 50 Altitude NDL Tables 51
High PO2 Dive Mode 36 High O2 Dive Mode 36 Decompression Dive Mode 36 Violation Modes 37 CARE and MAINTENANCE 40 Care and Cleaning 41 Inspections and Service 41 Battery Replacement 41 REFERENCE MATERIAL 43 Decompression Model 44 Tissue Compartment Control 44 No Decompression Limits 44 Oxygen Exposure Limits 44 Altitude Diving 45 Flying After Diving 45 Clear (Reset) Feature 46 Compass Removal/Installation Instructions 46 Specifications 47 Glossary 50 Altitude NDL Tables 51 Inspection/Service Record 52

FULL DISPLAY



<u>KEY:</u>

- 1A. Front (Advance) button
- 1B. Side (Select) button
- 2A. Nitrogen Bar Graph
- 2B. Oxygen Bar Graph
- 2C. Variable Ascent Rate Indicator
- 3. Alarm LED
- 4. Low Battery symbol
- 5. Descend (Down Arrow) symbol
- 6. Alarm (Speaker) symbol
- 7. Ascend (Up Arrow) symbol
- 8. Air Time (Tank) symbol

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 Wisdom 3.



NOTICES

LIMITED TWO-YEAR WARRANTY

Sherwood Scuba guarantees, to the original purchaser only, that the Wisdom 3 will be free of defects in materials and/or craftsmanship under normal recreational multilevel scuba use for two years from date of purchase, provided proper care and annual service are performed as described within this owner's guide. Should your Wisdom 3 prove to be defective for any reason (other than those listed in the limitations section below) it will be repaired or replaced (at Sherwood Scuba's discretion) free of charge excluding shipping and handling charges.

This warranty will be considered void if the registration card is not filled out completely at the time of purchase and mailed to Sherwood Scuba within 30 days of purchase, and/or if the annual inspection is not done according to this owner's manual. This warranty is non-transferrable and applies to the original purchaser only. All correspondence concerning this warranty must be accompanied by a copy of the original sales receipt and a copy of the owner's portion of the warranty registration card including the annual inspection record.

Once each year you must return the Wisdom 3 to an Authorized Sherwood Dealer within 30 days of the original purchase date anniversary to keep the two year limited warranty in force. Annual inspection includes verification of depth accuracy and proper general function. Labor charges for the annual inspection are not covered by the warranty. You must provide a copy of the original sales receipt and a copy of the owner's portion of the warranty registration card including the annual service record to obtain warranty service.

Statement of Limitations - General:

Warranty does not cover damage from accident, abuse, battery leakage, tampering, lack of proper care and maintenance and/or proper annual servicing, or improper use of the Wisdom 3. Modifications or repair by anyone other than a Sherwood Sales and Service Center authorized to service the Wisdom 3 will void the warranty. Sherwood Scuba will not be responsible for recovery or replacement of the product in the event of loss or theft. Sherwood Scuba, its distributors, and retailers make no warranties, either expressed or implied, with respect to this product or its owner's manual except those stated in the preceding paragraphs. In consideration of the sale of the Wisdom 3 to you, you agree and understand that in no event will Sherwood Scuba, its distributors or retailers, be held liable for any personal injuries resulting from its operation, or for any other damages whether direct, indirect, incidental, or consequential even if Sherwood Scuba is advised of such damages.

Some states do not allow the exclusion or limitation of implied warranties or liabilities for incidental or consequential damages, so the above limitation may not apply to you.

Warranty does not extend to the plastic gauge face, o-rings, batteries, or damage due to accident, abuse, modification, or tampering.

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PATENT NOTICE

U.S. Patents, registered in the U.S. Patent and Trademark Office, have been issued to protect the following design features: Data Sensing and Processing Device (U.S. Patent no. 4,882,678), Dive Time Remaining (U.S. Patent no. 4,586,136), and Ascent Rate Indicator (U.S. Patent no. 5,156,055).

DECOMPRESSION MODEL

The programs within the Wisdom 3 simulate the absorption of nitrogen 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 Wisdom 3 dive computer model is based upon the latest research and experiments in decompression theory. Still, using the Wisdom 3, just as using the U.S. Navy (or 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.

The following symbols are used throughout this manual to bring your attention to situations that require special consideration. Be sure to read and follow all instructions carefully.



A **WARNING** is used before a procedure that will result in serious injury or death if the procedure is not followed carefully.



A **CAUTION** is used before a maintenance technique that will result in damage to parts if that technique is not followed carefully.



A NOTE is used to emphasize an important maintenance technique.

Throughout this manual reference is made to the term 'breathing gas'. The rationale being that the Wisdom 3 can be used for Air dives or Nitrox dives. For clarity, these terms are defined as -

Breathing Gas - the gaseous mixture breathed during a dive.

<u>Air</u> - a breathing gas that contains approximately 21% oxygen and 79% nitrogen (nature's common nitrogen-oxygen mixture).

Nitrox - a nitrogen-oxygen breathing gas that contains a higher fraction of oxygen (22 to 50%) than air.



WARNINGS:

- The Wisdom 3 is intended for use by recreational divers who have successfully completed a nationally recognized course in scuba diving, and diving with enriched nitrogen-oxygen (nitrox) breathing gas mixtures.
- It is intended only for no decompression diving, NOT intentional decompression diving.
- 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, and certification in diving with enriched nitrogen-oxygen mixtures (nitrox) before using the Wisdom 3 if you have not already done so.
- It is NOT for use by military and commercial divers.
- It should NOT be utilized for any competitive, or repetitive square wave or decompression diving, as it is intended solely for recreational use and no decompression multilevel diving.
- 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 Wisdom 3.
- 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 Sherwood Scuba Dealer before you utilize this product.

FEATURES

and

DISPLAYS

INTRODUCTION

Congratulations on your recent purchase of the Sherwood Wisdom 3 dive computer!

Your new Wisdom 3 uses a unique and intuitive display that represents the information you need before, during, and after the dive, laid out in a logical format based on a dive profile diagram. Information is located where you would expect it to be.

In addition to no-decompression/decompression status, tissue loading of nitrogen, accumulation of oxygen, and ascent rate are presented as peripheral bar graphs alongside reference indicators.

As you progress through this instruction manual, you will become familiar with the unique functions and features available.

The Wisdom 3's wide array of features are described in detail throughout the pages that follow.

The initial time that you invest becoming acquainted with the symbols and various operating modes and displays will be returned as you enjoy your underwater activities with the comfort that your familiarization affords.

As you use the Wisdom 3, remember that the rules you learned in your SCUBA course(s) still apply to the diving you will do while using a dive computer - some will become even more important. Technology is no substitute for common sense, and a dive computer only provides the person using it with data, not the knowledge to use it.

FEATURES AND DISPLAYS

The Wisdom 3 has two Control Buttons that allow you to activate the unit and access specific information when you choose to see it. The Front button (Fig. 1a) is referred to as the Advance and the Side button (Fig. 1b) as the Select.

While on the surface, you can use the buttons to maneuver through the Wisdom 3's unique Menu System that allows -

- selection of 3 Main Operating Modes (Air, Nitrox, or Gauge)
- viewing of various information displays (Last Dive, Plan Depths/Times, Dive Logs, History, etc.)
- entering of settings divided into 4 convenient categories (Basics, Alarms, Utilities, and Time)
- activation of the Backlight
- operation of an onboard Simulator
- setup for a PC interface program

During the Dive modes, the buttons may be used to -

- activate the display's Backlight
- view Alternate displays of information
- acknowledge Alarms

INTUITIVE DISPLAYS

The Wisdom 3 uses 4 rows of easy to understand alpha/numeric displays and graphic icons (Fig. 2).

For example, when you enter into Special Situations, such as Decompression, High PO2, and Out of Range modes, an UP Arrow symbol will appear as a warning to ascend to a shallower depth.

It also utilizes 3 segmented Bar Graphs to provide you with quick visual reference of Decompression status, O2 Saturation, and Ascent speed. Their segments represent Normal, Caution, and Danger zones.

It is imperative that you understand the formats, ranges, and values of the information presented by the Wisdom 3's numeric and graphic displays to avoid any possible misunderstanding that could result in an error.



Fig. 1 - Control Buttons



Fig. 2 - Icons

BAR GRAPHS

Nitrogen Bar Graph

The Nitrogen Bar Graph (Fig. 3a) represents tissue loading of nitrogen, showing your relative no decompression or decompression status.

As your depth and bottom time increase, segments will add to the Graph, and as you ascend to shallower depths, the Bar Graph will begin to recede, indicating that additional no decompression time is allowed for multilevel diving.

The Nitrogen Bar Graph monitors 12 different nitrogen compartments simultaneously and displays the one that is in control of your dive. It is divided into a No Decompression (normal) zone, a Caution zone (also No Decompression), and a Decompression (danger) zone.

While you cannot provide a guarantee against the occurrence of decompression sickness, you may choose your own personal zone of caution based upon age, physique, excessive weight, etc., to reduce the statistical risk.

Oxygen Accumulation Bar Graph (O2BG)

The O2 Bar Graph (Fig. 4a) represents oxygen loading, your relative oxygen tolerance dosage (OTU), showing the maximum of either per dive accumulated oxygen, or 24 hour period accumulated oxygen.

As your accumulation (% saturation) increases during a dive or 24 hour period, segments will add to the Bar Graph, and as loading decreases, it will begin to recede, indicating that additional exposure is allowed.



NOTE: Displays associated with oxygen and the O2 Bar Graph will only appear if FO2 has been set at a value other than 'Air' (e.g., a numerical value).

Variable Ascent Rate Indicator (ARI)

The Variable Ascent Rate Indicator (Fig. 4b) provides a visual representation of Ascent speed (i.e., an ascent speedometer), 'normal' rate, a 'cautionary' rate, and 'Too Fast'.

The segments of the Variable Ascent Rate Indicator represent 2 sets of speeds which change at a reference depth of 60 FT (18 M). Refer to the chart at the right for segment values.



WARNING: At depths greater than 60 FT (18 M), Ascent Rates should not exceed 60 FPM (18 MPM). At depths of 60 FT (18 M) and shallower, Ascent Rates should not exceed 30 FPM (9 MPM).

INFORMATIONAL DISPLAYS

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.

Tank Pressure Display

Tank pressure is displayed numerically as the largest digits (Fig. 5a). Values of pressure are displayed from 0 PSI (BAR) up to 5000 PSI (352 BAR) in increments of 5 PSI (.5 BAR).

Depth Displays

During a dive, the **Current Depth** display (Fig. 5b), indicates depths from 0 to 330 FT (99.9 M) in 1 FT (0.1 M) increments.

The Maximum Depth reached during that dive will also be displayed (Fig. 5c).

- When the unit is set to operate as a Digital Depth Gauge/Timer (referred to as Gauge Mode), the Depth Display range is 'extended' to 399 FT (120 M).
- At depths greater than 99.9 M, it will indicate metric values in increments of 1 M.



Fig. 3 - Nitrogen BG



Fig. 4 - O2BG & ARI

Г	Deeper than 6	0 FT (18 M)
1	Segments	Ascent Rate =
÷	Displayed	<u>FPM MPM</u> 0-20 0-6
	1	21-30 6.5-9
L.	2	31-40 9.5-12
1	3	41-50 12.5-15
1	5	>60 >18
!		
1	60 FT (18 M) 8	Shallower
•	Segments	Ascent Rate =
1	Displayed	FPM MPM
١.	0	0-10 0-3
1	1	11-15 3.5-4.5
1	2	16-20 5-6
i.	3	21-25 6.5-7.5
1	4	26-30 8-9
1	5	>30 >9
/	/ariable Ascer	t Rate Indicator



Fig. 5 - Pressure & Depth

Time and Date Displays

Time displays are shown in hour:minute format (i.e., 1:09 represents 1 hour and 9 minutes, not 109 minutes!). The colon that separates hours and minutes blinks once per second when the display is indicating real time (e.g., Elapsed Dive Time), and is solid (non-blinking) when times are calculated projections (e.g., Time to Fly).

The Main Time display is configured with the second largest digits of the LCD (Fig. 6a). A second time display (Fig. 6b) provides additional Times such as Surface Interval and Elapsed Dive Time.

Date (Fig. 6c) is only displayed during select surface modes such as the TIME screen.

• Month always appears to the left of Day, even when set for Metric units.

Temperature Display

Ambient Temperature (Fig. 7a) is viewed as part of Alternate Displays. If the Temperature exceeds a value of 99, 2 dashes (--) will be displayed on the screen until the Ambient Temperature decreases to 99.



NOTE: The Informational Displays are described in detail as the various operating modes they appear in are presented throughout this manual.

AUDIBLE ALARM

When Reminder Alarm situations activate the Alarm, the unit will emit a quick double beep each second for 10 seconds, or until the situation is corrected, or it is acknowledged by pressing the Advance (Front) button.

When Cautionary Alarm situations activate the Alarm, the beep will be on for 1/2 second then off 1/2 second, repeating for 10 seconds, or until the situation is corrected, or it is acknowledged by pressing the Advance (Front) button.

Some Alarms cannot be acknowledged. These are differentiated by 1 beep per second for 10 seconds followed by a full 3 second beep.

If an Alarm is acknowledged and the situation corrected, the Alarm will sound again if the situation occurs again, or another Alarm situation occurs.

A single short beep is emitted after the Diagnostic check, upon automatic return to Surface Mode from Simulator Mode, upon completion of a fast battery change with calculations/settings saved, and upon change from Delayed to Full Violation after that dive.

A red LED Warning Light located on the lower/left portion of the module is synchronized with the Audible Alarm and will flash when the Alarm sounds. A scrolling message will also be displayed in the upper portion of the screen. The LED will turn OFF when the Alarm is acknowledged or Set OFF, however, the message will continue to scroll until the condition is cleared. In the event that another Alarm situation occurs, its scrolling message will be displayed until it is acknowledged, at which time it will be replaced by the message that was previously scrolling.

Reminder Alarm situations include -

- PO2 equal to or greater than 1.60 ATA, or the Max PO2 Alarm setting.
- Descent deeper than the Max Depth Alarm setting.
- · Dive Time Remaining decreases to the Alarm setting.
- · Tank Pressure decreases to the Turn Pressure Alarm setting.

Cautionary Alarm situations include -

- Entry into Decompression Mode
- O2 Accumulation equal to or greater than allowable per dive limit, or limit for a 24 hour period.
- Ascending above a required Decompression Stop Depth for less than 5 minutes.
- Ascent rate exceeds 60 FPM (18 MPM) when depth is greater than 60 FT (18 M), or 30 FPM (9 MPM) at 30 FT (9 M) or shallower.
- Tank Pressure decreases to the End Pressure Alarm setting.
- Entry into Delayed or Full Violation modes (described later).



Fig. 6 - Time & Date



Fig. 7 - Temperature

Situations in which the Alarm cannot be acknowledged include -

- Being above a required Decompression Stop Depth for more than 5 minutes.
- Being in Decompression that requires a Stop Depth much greater than 60 FT (18 M).
- Being on the surface for 5 minutes without completing a Decompression obligation.

BACKLIGHT

To activate the HydroGlo[®] Backlight while viewing displays in the Surface Mode, press both buttons simultaneously.

To activate the Backlight while viewing displays underwater, press the Front (Advance) button momentarily (< 2 seconds).

The screen will be illuminated for 10 seconds. Press the button(s) again to activate as desired.

The Backlight is disabled if the button(s) is held depressed longer than 10 seconds or during a Low Battery Condition.



NOTE: Sherwood Scuba recommends that you carry primary and backup dive lights when conducting dives that could include low light situations.

POWER SUPPLY

The Wisdom 3 utilizes one (1) 3 volt, CR2450 Lithium Battery that should provide from 300 dive hours of operation if you conduct one 1 - hour dive each time the unit is activated, to over 600 dive hours of operation if you conduct two or more dives each time the unit is activated.

Battery Indicator

A Battery Indicator (icon) provides an indication of Low Battery Condition. The Battery Indicator (Fig. 8a) will only appear on the Surface TIME (or WET), DATA, and FLY/SAT screens. It will not be displayed on other surface display screens or during Dive Modes.

Low Battery Condition

- Voltage level is checked upon activation and every 4.5 minutes during operation.
- Once 75% of full power is consumed, the Indicator will appear on the TIME (or WET) screen as a warning that the Battery is to be changed prior to conducting any further dives with the unit.
- If a Low Battery Condition exists when the unit is activated (by pressing the button), the Battery icon will appear flashing once per second for 5 seconds followed by shutdown of the unit.
- If the button is not pressed to activate the unit prior to a dive, and a Low Battery Condition exists, the Low Battery icon will appear flashing as a warning upon descent past 4 feet (1.2 meters). No other information will be displayed and the unit will not enter Dive Mode.
- If the unit did not display the Low Battery icon 'prior to' entering the Dive Mode, and a Low Battery Condition occurs during the dive, there will be sufficient Battery power to maintain unit operation for the 'remainder of that dive'. The Low Battery icon will appear upon surfacing when the TIME (or WET) screen is displayed.

OPERATING TEMPERATURE

The Wisdom 3 will operate in water temperatures from 28° to 95° F (-2 to 35° C) and out of the water from 20° to 140° F (-6 to 60° C). At extremely low temperatures, the LCD may become sluggish, but this will not affect it's accuracy. If stored or transported in extremely low temperature areas (below freezing), warm the unite and battery with body heat before diving.

It is possible to damage the electronics if left exposed to direct sunlight, or in a hot confined space (like a car trunk). After diving, cover it and keep it out of the sun. If inadvertently left in the direct sunlight, the LCD display may become totally black. If this occurs, immediately immerse it in water. The display should recover its normal appearance after a few minutes. Damage from excess heat, or cold, is not covered by the two year limited warranty.



Fig. 8 - Low Battery Condition

ACTIVATION

and

SETUP

ACTIVATION

PUSH BUTTON (PRIMARY METHOD)

A momentary press of the front (Advance) button activates the Wisdom 3. The Wisdom 3 will automatically turn OFF 2 hours after activation if no dive is made. If the water activation contacts are still bridged (the unit is wet), it automatically reactivates.

WATER CONTACT (BACKUP METHOD)



NOTE: This method functions only when the Wet Activation feature is set ON.

The Wisdom 3 has 2 contacts that cause it to activate when the space between the contacts is bridged by a conductive material (e.g., water contact) and enter WET Mode (Fig. 9A) or DIVE Mode.

Upon removing the bridge between the contacts (drying the unit), the alpha graphic TIME replaces the graphic WET (Fig. 9B).

If the contacts are still bridged 2 hours after a dive, the alpha graphic WET appears together with the graphic FLY:SAT and the Time to Fly and Desaturation countdown timers.

Upon drying the unit, the graphic WET is replaced with the graphic TIME.

DIAGNOSTIC MODE (ONLY IF MANUALLY ACTIVATED)

Immediately following manual (push button) activation, the Wisdom 3 lights all segments of the LCD and initiates a countdown sequence (Fig. 10). Following the countdown sequence (from 8, -, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0) which takes about 2 seconds, it verifies that sensor readings and battery voltage are within tolerance. If values are satisfactory, it enters Surface Mode displaying the TIME screen.







Fig. 9B - Unit Dry



Fig. 10 - Diagnostics



Fig. 11 - Serial No.



Fig. 12 - Time



When the front (Advance) button is held depressed and as the Diagnostic countdown reaches 00, a Serial Number screen appears displaying the unit's Serial Number and firmware code Revision Number as long as the button is held depressed (Fig. 11). Upon releasing the button, the unit shuts Off.

Once the dive computer is activated, regardless of what mode it is in, it automatically reverts to DIVE MODE upon descent to 5 FT (1.5 M).

SURFACE SCREENS TIME SCREEN

The TIME screen appears immediately following diagnostics (if manually activated) on a new day, or reactivation in FLY/DESAT MODE.

If the unit is wet, the alpha graphic WET replaces the alpha graphic TIME. Once the unit is dry, the WET graphic is replaced by the TIME graphic.

The graphic TIME (or WET) flashes during the first 10 minutes after a dive.

TIME/WET SCREENS (Fig. 12/13)

Appearing on the display are -

- Alpha graphic TIME, or WET
- Date (month and day)
- Elapsed surface time (or time since activation if no dive made yet that day) and graphic Surface
- Operating Mode graphic (Nitrox, Air, or Gauge)
- Time of Day (hours:minutes)
- Cylinder Pressure and graphic (PSI or BAR)
- NiBG and O2BG, if any
- Battery icon (if Low Battery Condition)

Pressing the Both buttons simultaneously for less than 2 seconds activates the Backlight. Pressing the front (Advance) button accesses the DATA screen. In addition to the DATA screens, you can use also use the front (Advance) button to access the -

- PLAN screens (sequence of allowed dive depths/times)
- LAST screen (previous dive's data)
- LOG screens
- HISTORY screen
- SIMULATOR Mode
- SET Modes

FLY/DESAT appears automatically 2 hours after a dive. Desat time also appears on DATA displays.

DATA SCREENS

The DATA screens are accessible during a new activation period or greater than 10 minutes after surfacing from a dive. By pressing the front (Advance) button 1 time while the TIME (or WET) screen is being displayed (TIME/WET > DATA), you can access the DATA screen representing the Mode that you set the dive computer to operate in (Nitrox, Air, or Gauge described later).

You can also access the DATA screen when FLY/SAT is being displayed during the period from 2 hours to 24 hours after a dive pressing the front (Advance) button 1 time to first recall the TIME/WET screen from which you can access to the sequence of Surface Displays.

FLY/SAT > TIME/WET > DATA > PLAN > LAST > LOG > HISTORY > SIMULATOR > SET

ALTITUDE LEVEL Graphics that appear on DATA or Log/History screens represent the following -

	1 11 1
SEA	= 0 to 3,000 feet (915 meters)
LEV2	= 3,001 to 5,000 feet (916 to 1,525 meters)
LEV3	= 5,001 to 7,000 feet (1,526 to 2,135 meters)
LEV4	= 7,001 to 9,000 feet (2,136 to 2,745 meters)
LEV5	= 9,001 to 11,000 feet (2,746 to 3,355 meters)
LEV6	= 11,001 to 13,000 feet (3,356 to 3,965 meters)
LEV7	= 13,001 to 14,000 feet (3,966 to 4,270 meters)
outr	= > 14,000 feet (> 4,270 meters)

AIR MODE DATA screen (Fig. 14)

- Alpha graphic DATA
- Alarm icon (if all alarms set On)
- Temperature and graphic (F or C)
- DeSat time and graphic, if any
- AIR graphic (indicating operating mode)
- Altitude level graphic if > Sea level as LEV2 (through LEV7), or outr (out of range)

NITROX MODE DATA screen (Fig. 15)

- Alpha graphic DATA
- Alarm icon (if all alarms set On)
- Temperature and graphic (F or C)
- DeSat time and graphic, if any
- NITROX graphic (indicating operating mode)
- PO2 and FO2 set points, and FO2 graphic
- Altitude level graphic if > Sea level as LEV2 (through LEV7), or outr (out of range)

While viewing the AIR or NITROX DATA screen -

- Pressing Both buttons for < 2 seconds activates the Backlight.
- Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen.
- Pressing the front (Advance) button accesses the PLAN screen.

The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.



Fig. 14 - Air Mode Data



Fig. 15 - Nitrox Mode Data

GAUGE MODE DATA screen (Fig. 16)

- Alpha graphic DATA
- Alarm icon (if all alarms set On)
- Temperature and graphic (F or C)
- GAUGE graphic (indicating operating mode)
- Altitude level graphic if > Sea level as LEV2 (through LEV7), or outr (out of range)

While viewing the GAUGE DATA screen -

- Pressing Both buttons for < 2 seconds activates the Backlight.
- Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen.
- Pressing the front (Advance) button accesses the PLAN screen.

The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

PLAN SCREENS

The PLAN screens are accessible during a new activation period or greater than 10 minutes after surfacing from a dive.

By pressing the front (Advance) button 2 times while the TIME/WET screen is being displayed (TIME/WET > DATA > PLAN), or 1 time while the DATA screen is being displayed, you can access the PLAN screen representing the Mode you set the Wisdom 3 to operate in (Nitrox or Air). If set for Gauge operation, PLAN is bypassed.

While viewing the PLAN screen, pressing and releasing the side (Select) button increases the Planned Depth in increments of 10 feet (3 meters), displaying the information one screen at a time. Holding the button depressed scrolls through the screens at a rate of 4 per second.

Information provided includes Depths and allowable no-decompression dive times (NDLs) for Depths from 30 to 190 feet (9 to 57 meters).

If the limiting time factor is Nitrogen controlled, the N2 Bar Graph displays all green and yellow segments. If Oxygen controlled, the green and yellow segments of the O2 Bar Graph are displayed.

For Depths where no time is available, 00 appears for Time and the DECO segment of the N2 Bar Graph flashes. The graphic PO2 and O2BG (green/yellow) flash on the last PLAN screen (allowed time = 00).

The tables in the back of the manual list predicted Plan values for Altitudes from Sea Level to 14,000 feet (4,270 meters).

Calculations within the Wisdom 3 change based upon each 1,000 feet (305 meter) increase in Altitude above Sea Level (above 3,000 feet/915 meters). Due to the tolerance of the sensor and atmospheric conditions at the time, it is possible for a Level (LEV) to be displayed that differs from the actual Altitude.

AIR MODE PLAN screen (Fig. 17)

- Alpha graphic PLAN
- No Decompression Limit (hours:minutes), 3 dashes if no time available
- AIR graphic (indicating operating mode)
- Plan Depth and graphic (Feet or Meters)
- Cylinder Pressure and graphic (PSI or BAR)
- N2 Bar Graph No Deco segments (flashing if DECO)

NITROX MODE PLAN screen (Fig. 18)

- Alpha graphic PLAN
- Maximum Depth for PO2 of 1.60 and graphics (Maximum and Feet or Meters)
- No Decompression Limit (hours:minutes), 3 dashes if no time available
- NITROX graphic (indicating operating mode)
- Plan Depth and graphic (Feet or Meters)
- FO2 set point and graphic
- Cylinder Pressure and graphic (PSI or BAR)
- O2 Bar Graph, all segments (flashing if O2 Limit exceeded)



Fig. 16 - Gauge Mode Data



Fig. 17 - Air Mode Plan



Fig. 18 - Nitrox Mode Plan

While viewing a PLAN screen -

- Pressing Both buttons for < 2 seconds activates the Backlight.
- Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen.
- Pressing the front (Advance) button accesses the LAST screen.

The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

LAST DIVE SCREEN

The LAST screen, which displays data for the most recent dive, is accessed by pressing the front (Advance) button 3 times while the TIME/WET screen is being displayed (TIME/WET > DATA > PLAN > LAST).

LAST (DIVE) screen (Fig. 19)

- Alpha graphic LAST
- Time of Day the dive Started
- Time of Day the dive Ended
- Operating mode graphic (Air, Nitrox, or Gauge)
- Maximum Depth and graphic (Feet or Meters)
- Elapsed Dive Time and graphic (Minutes)
- Cylinder Pressure (end of dive) and graphic (PSI or BAR)
- N2 Bar Graph reflecting segments at end of dive and maximum segment (except Gauge)
- O2 Bar Graph reflecting segments at end of dive (if Nitrox)

While viewing the LAST screen -

- Pressing Both buttons for < 2 seconds activates the Backlight.
- Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen.
- Depressing the front (Advance) button accesses the LOG GO TO screen.
- The unit reverts to the TIME screen if neither button is pressed in 2 minutes.

LOG MODE

The Log stores data for each dive as 3 screens referred to as the Date Screen, Screen #1, and Screen #2.

Upon gaining access to the Date Screen, Log Screen #1, and Log Screen #2, information displayed is frozen until either button is pressed again. If neither button is pressed, the unit reverts to the TIME screen in 2 minutes.

The LOG stores information from the latest 50 dives which can be accessed sequentially from the most recent to the oldest, and retains the information indefinitely, even if the Battery is removed. Log information is deleted when the unit is manually Reset (cleared).

After exceeding 50 dives, the LOG stores the most recent dive while deleting the oldest.

Dives are numbered 1 to 50 for each Activation Period.

- During 10 minutes after a dive, pressing the front (Advance) button 1 time accesses the Log Mode.
- 10 minutes after a Non-Violation Dive, pressing the front (Advance) button 4 times accesses Log Mode. (TIME > DATA > PLAN > LAST > LOG).
- 10 minutes after a Violation Dive, pressing the front (Advance) button 3 times accesses Log Mode. (TIME > DATA > LAST > LOG). PLAN is not available after a Violation Dive.
- Entering Log Mode displays the LOG GO TO screen.

LOG GO TO screen (Fig. 20)

- Alpha graphic LOG
- Alpha graphic Go to -

While viewing the LOG GO TO screen -

- Pressing Both buttons for < 2 seconds activates the Backlight.
- Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen.

• Pressing the front (Advance) button bypasses Log Mode and accesses the HISTORY screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.



Fig. 19 - Last Dive



Fig. 20 - Log Mode

While LOG GO TO is being displayed -

- Pressing the side (Select) button once displays the most recent dive's LOG Date screen.
- Pressing the front (Advance) button displays that dive's Log Screen #1.
- Pressing the front (Advance) button again displays that dive's Log Screen #2.
- Pressing the front (Advance) button again displays the LOG GO TO screen.

LOG DATE screen (Fig. 21)

- Alpha graphic LOG
- Date (month/day)
- Dive number (1 to 50) for that Activation Period
- Operating Mode graphic (AIR, NITROX, or GAUGE)
- FO2 set point (% O2) and graphic FO2%

While viewing the LOG DATE screen -

- Pressing and releasing the front (Advance) button displays that dive's Log Screen #1.
- Pressing and releasing the side (Select) button repeatedly advances through the recorded LOG DATE screens. Pressing and holding it, scrolls through them at a rate of 4 per second.
- Pressing Both buttons for < 2 seconds activates the Backlight.
- Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen.

LOG Screen #1 (Fig. 22)

- Alpha graphic Scr 1
- Temperature (minimum recorded that dive) and graphic (F or C)
- Surface Interval if a repetitive dive, 3 dashes (: -) if no previous dive that Activation Period, and graphic
- Operating Mode graphic (AIR, NITROX, or GAUGE)
- Maximum Depth and graphic FEET (or METERS)
- Elapsed Dive Time and graphic MINUTES
- Cylinder Pressure at the end of the dive and graphic PSI (or BAR)

While viewing LOG Screen #1 -

- Pressing and releasing the front (Advance) button displays that dive's LOG 2 screen.
- Pressing Both buttons for < 2 seconds activates the Backlight.
- Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen.

LOG Screen #2 (Fig. 23)

- Alpha graphic Scr 2
- Time of Day dive Started with Down Arrow icon
- Time of Day dive Ended with Up Arrow icon
- Operating Mode graphic (AIR, NITROX, or GAUGE)
- Maximum PO2 achieved (ATA) and graphic PO2, if Nitrox
- Altitude level graphic SEA, or LEV 2 (through LEV 7), or outr
- N2BG maximum accumulated segment flashing, others fixed up to end-of-dive accumulation, all flashing for delayed and full violations.
- · O2BG, if Nitrox fixed up to end-of-dive accumulation
- · Ascent Rate Indicator displaying maximum sustained for 4 consecutive seconds

While viewing LOG Screen #2 -

- Pressing and releasing the front (Advance) button displays the LOG GO TO screen.
- Pressing and releasing the front (Advance) button again accesses the HISTORY screen.
- Pressing Both buttons for < 2 seconds activates the Backlight.
- Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen.



Fig. 21 - Log Date



Fig. 22 - Log Screen #1



Fig. 23 - Log Screen #2

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HISTORY MODE

HISTORY records accumulative information for up to 999 Total Dives and 2999 Dive Hours, and retains the information indefinitely, even if the Battery is removed.

 10 minutes after a Non-Violation Dive, pressing the front (Advance) button 5 times accesses HISTORY MODE (TIME > DATA > PLAN > LAST > LOG > HISTORY).

HISTORY screen (Fig. 24)

- Alpha graphic HIST
- Maximum Depth attained and graphics MAXIMUM and FEET (or METERS)
- Total accumulated Dive Hours of 0:01 to 29:59 (hr:min), then 30 to 2999 (hours)
- Total Number of Dives (1 to 999)
- Highest Altitude level graphic SEA, or LEV 2 (through 7), or outr

While viewing the History screen -

- Pressing Both buttons for < 2 seconds activates the Backlight.
- Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen.
- Depressing the front (Advance) button accesses the SIMULATOR screen.

The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

SIMULATOR

Simulator Mode allows you to perform dive mode scenarios without getting wet. It also allows you to perform simulated New or Continuous (repetitive) dives and set simulated Surface Interval time. Calculations performed for simulated dives utilize the dive computer's real settings (i.e., FO2, Alarm values that you previously set, etc.). Cylinder Pressure is not utilized.

10 minutes after a Non-Violation Dive, pressing the front (Advance) button 6 times accesses the Simulator Mode (TIME > DATA > PLAN > LAST > LOG > HISTORY > SIMULATOR).

Entering Simulator Mode displays the SIMULATOR GO TO screen.

SIMULATOR GO TO screen (Fig. 25)

- Alpha graphic SIMU
- Alpha graphic Go to -

While viewing the SIMU GO TO screen -

- Pressing Both buttons for < 2 seconds activates the Backlight.
- Pressing Both buttons for => 2 seconds reverts to the real TIME/WET screen.
- Pressing the front (Advance) button while the SIMU GO TO screen is displayed bypasses Simulator Mode and accesses the PC screen.

The unit reverts to the real TIME/WET screen if neither button is depressed in 10 minutes. A quick beep Audible Alert sounds when this happens.

While SIMU GO TO is being displayed, pressing and releasing the side (Select) button calls up the NEW GO TO screen.

Subsequent pressing and releasing of the side (Select) button sequences through CONT GO TO, SIMU GO TO, and NEW GO TO.

NEW GO TO screen (Fig. 26)

- Alpha graphic NEW
- Alpha graphic Go to -





Fig. 26 - New Dive

18

Fig. 25 - Simulator Mode



Wisdom 3 DC Manual

CONT GO TO screen (Fig. 27)

- Alpha graphic CONT
- Alpha graphic Go to -
- Pressing and releasing the front (Advance) button accepts the GO TO displayed.

If SIMU GO TO is selected, the Simulator is bypassed and the SET GO TO screen is accessed.

If NEW GO TO or CONT GO TO is selected, the Simulator TIME/WET screen appears.

SIMULATOR TIME/WET screen (Fig. 28)

- Alpha graphic TIME (or WET)
- Date (Month.Day)
- Graphics SURFACE and TIME
- Numeric Surface Interval (hr:min)
- Time of Day (Hr:Min)
- 4 Dashes
- Pressing and holding the side (Select) button increases Surface Interval (SI) time at a rate of 1 minute per real second.
- Pressing and releasing the side (Select) button starts a Descent at a rate of 2 FPS (feet per second).
- Pressing Both buttons for < 2 seconds activates the Backlight.
- Pressing Both buttons for => 2 seconds reverts to the real TIME/WET screen.

SIMULATOR DIVE MODE screens

- Maximum Depth and graphics MAXIMUM and FEET (or METERS)
- Elapsed Dive Time and graphic DIVE TIME
- Operating Mode graphic NITROX (or AIR)
- Current Depth and graphic FEET (or METERS)
- Dive Time Remaining and graphic SAFE MINUTES
- Applicable Bar Graphs (NiBG, O2BG, ARI)
- Alpha graphic dn during Descent (Fig. 29), or up during Ascent (Fig. 30)

A quick tap (<2 seconds) of the side (Select) button starts the Descent at a rate of 2 FPS.

Once a Descent is started -

- quick taps of the front (Advance) button stops Descents and starts Ascents at a rate of 1 FPS.
- quick taps of the side (Select) button stops Ascents and starts Descents.

While stopped at Depth, 4 dashes appear in place of the graphics dn/up. Depressing and holding the side (Select) button increases Elapsed Dive Time 1 minute per real time second (t 60 appears).

Depressing the front (Advance) button for 2 seconds acknowledges an Alarm condition.

The Simulator TIME (or WET) screen appears upon ascending to 3 FT (1 M). Similar to Fig. 28.



Fig. 27 - Repetitive Dive



Fig. 28 - Sim Surface



Fig. 29 - Descending



Fig. 30 - Ascending

PC INTERFACE MODE

While the TIME/WET screen is displayed, data can be downloaded from the Wisdom 3 or settings can be uploaded to it, by connecting the Wisdom 3 to a compatible PC using a special PC Interface Cable (USB) and setting up the PC program.

When the cable is connected, a PC screen will be displayed for 2 minutes, or until the data transfer is complete if less.

While the PC screen is displayed, the buttons on the Wisdom 3 will be disabled. Interruption of the connection will only occur if the cable is disconnected during the countdown.

PC screen (Fig. 31)

- Alpha graphic PC
- Countdown Timer from 119 to 00 (seconds)

Data Download and/or Settings Upload action is initiated by the PC program (no buttons need to be pressed on the Wisdom 3).

If PC action is not initiated by the time the countdown timer reaches 00 (seconds), the unit automatically reverts to the TIME/WET screen.

ENTERING SETTINGS

The Wisdom 3's Settings are divided into groups consisting of Modes/Basics, Alarms, Utilities, and Time/ Date. Except for FO2, settings can also be changed using the PC Interface program.

Set 1 (Modes/Basics) - Operating Mode (Air, Nitrox, or Gauge), PO2, FO2, Nitrox Default

Set 2 (Alarms) - All (On/Off), Ascent, Depth, Turn/End Press, Reserve Time, Deco, PO2 (On/Off)

Set 3 (Utilities) - Wet Activation (On/Off), Units of Measure, Sample Rate, Deep Stop

Set 4 (Time) - 12/24 Hour Format, Am/Pm, Time, Date

While the TIME/WET screen is displayed, pressing the front (Advance) button 7 times accesses the SET GO TO screen (TIME > DATA > PLAN > LAST > LOG > HIST > SIMU > SET).

SET GO TO screen (Fig. 32)

• Alpha graphics SET and Go to -

Pressing the side (Select) button scrolls through the SET 1 (Fig. 33), SET 2, SET 3, SET 4 GO TO screens. SET 2, 3, and 4 screens are similar to SET 1.

Release of the button freezes the SET screen selected, then you have up to 2 minutes to press the front (Advance) button to access the first parameter of that Set Group.

SET 1 GROUP (MODES/BASICS)

Pressing and releasing the side (Select) button 1 time while the SET GO TO screen is displayed, accesses the SET 1 GO TO screen.

Pressing and releasing the front (Advance) button while SET 1 is displayed, accesses the SET OPERATING MODE screen with the set point flashing.





Fig. 32 - Set Mode



Fig. 33 - Set 1 Group

SET OPERATING MODE

Factory set for AIR, the Wisdom 3 can also be set for NITROX or GAUGE.

Appearing on the screen are (Fig. 34) -

- Alpha graphic MODE
- Operating Mode graphic AIR or NITROX or GAUGE, flashing

Pressing and releasing the side (Select) button changes the selection (AIR > NITROX > GAUGE). Pressing and releasing the front (Advance) button accepts the selection.

- If NITROX is selected it advances to SET PO2 ALARM VALUE.
- If AIR or GAUGE is selected, it reverts to the TIME/WET screen.

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

When set for AIR -

- calculations are the same as when it is set for NITROX with FO2 set for 21%.
- it remains set for AIR until it is set for NITROX.
- it internally keeps track of the oxygen loading so that if it is subsequently set for NITROX, the oxygen loading of previous AIR dives is accounted for in the Nitrox dives (during that activation period and series of repetitive dives).

Once a dive is taken with NITROX or GAUGE selected, that operating mode is locked ON for 24 hours after the last dive.

When AIR or GAUGE is selected, other SET 1 selections which are associated only with NITROX will not be available.

Once 24 hours has elapsed and the unit has shut OFF, operation defaults to the AIR Mode upon reactivation, until the Mode is changed.

SET PO2 ALARM VALUE

Factory set for 1.60 (ATA), the PO2 ALARM VALUE can also be set from 1.20 to 1.60 (ATA) in increments of .01 (ATA).

To access SET PO2 while viewing the SET 1 GO TO screen, press/release the front (Advance) button 1 time.

Appearing on the screen (Fig. 35) will be -

- Alpha graphic PO2
- Alarm (speaker) icon and Operating Mode graphic (NITROX)
- PO2 set point, numerical value flashing

Pressing and holding the side (Select) button scrolls through the set points at a rate of 4 per second . Pressing and releasing the front (Advance) button accepts the setting and advances to SET FO2.

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.



Fig. 34 - Set MODE



Fig. 35 - Set PO2

SET FO2 VALUE

Factory set for 21%, FO2 can also be set at Values from 21 to 50% in increments of 1%. FO2 defaults to 21% after it shuts off and is reactivated and set for Nitrox Mode operation.

To access SET FO2 while viewing the SET 1 GO TO screen, press/release the front (Advance) button 2 times. Appearing on the screen will be (Fig. 36) -

- Alpha graphic FO2
- Max Depth (allowed for PO2 alarm set) and graphics MAXIMUM and FEET (or METERS)
- Operating Mode graphic (NITROX)
- FO2 set point (a numerical value) flashing and graphic FO2%

Pressing and holding the side (Select) button scrolls through the set points from 21 through 32% in 1% increments at a rate of 8 per second. The scroll stops at 32% for several seconds then continues to scroll from 32 through 50% to 21% in increments of 1%.

Pressing and releasing the side (Select) button changes the Value 1% per press/release. Pressing and releasing the front (Advance) button accepts the setting and advances to SET FO2 DEFAULT.

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

SET FO2 DEFAULT ON/OFF

Factory set ON, the FO2 DEFAULT can also be set OFF.

When set ON, 10 minutes on the surface after the dive FO2 is displayed as 50 and further calculations are based on 50% O2 for Oxygen and 21% O2 for Nitrogen (79% Nitrogen) unless you set the FO2 before the dive. FO2 continues to reset to the FO2 50% DEFAULT after subsequent repetitive dives until the unit shuts Off, or the DEFAULT is set OFF.

When set OFF, the FO2 Value remains set at the last set point selected for the remainder of that Activation Period.

To access SET FO2 DEFAULT while viewing the SET 1 GO TO screen, press/release the front (Advance) button 3 times. Appearing on the screen will be (Fig. 37) -

- Alpha graphics DFT, and ON (or OFF) flashing
- Operating Mode graphic (NITROX) and 50

Pressing and releasing the side (Select) button toggles between ON and OFF. Pressing and releasing the front (Advance) button accepts the selection and advances to SET Go To.

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

SET 2 GROUP (ALARMS)

Pressing and releasing the side (Select) button 2 times while the SET GO TO screen is displayed, accesses the SET 2 GO TO screen.

Pressing and releasing the front (Advance) button 1 time while SET 2 GO TO is displayed, accesses the SET ALL ALARMS screen with the set point flashing.



Fig. 36 - Set FO2

The Depth displayed is the deepest Depth allowed for the PO2 Value set. Information is updated with each FO2 set point.



Fig. 37 - Set Default

SET ALL ALARMS ON/OFF

Factory set ON, All Alarms can also be set OFF. When set OFF, All Alarm settings are bypassed and the Audible Alarm is turned OFF for the Alarms that could be set On/Off.

Appearing on the screen will be (Fig. 38) -

- Alpha graphics ALM and ALL
- Alarm (speaker) icon
- Graphic ON (or OFF), flashing

Pressing and releasing the side (Select) button toggles between ON and OFF. Pressing and releasing the front (Advance) button accepts the selection and/or advances to SET Ascent Alarm (if ON is selected), or SET Go To (if OFF is selected).

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

SET ASCENT ALARM ON/OFF

Factory set ON, the ASCENT ALARM can also be set OFF. When set OFF, the Alarm will not sound as Ascent Rate increases.

To access SET ASCENT ALARM while viewing the SET 2 GO TO screen, press/release the front (Advance) button 2 times. Appearing on the screen (Fig. 39) will be -

- Alpha graphic ASNT
- Alarm (speaker) icon
- Graphic ON or OFF, flashing
- · Ascent Rate Indicator

Pressing and releasing the side (Select) button toggles between ON and OFF. Pressing and releasing the front (Advance) button accepts the selection and/or advances to SET MAX DEPTH ALARM with the Set Point flashing.

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

SET DEPTH ALARM ON/OFF

Factory set ON, the DEPTH ALARM can also be set OFF. When set OFF, the Alarm will not sound as Depth increases toward 330 feet (120 meters).

To access SET DEPTH ALARM while viewing the SET 2 GO TO screen, press/release the front (Advance) button 3 times. Appearing on the screen (Fig. 40) will be -

- Alpha graphic DEEP
- Alarm (speaker) icon
- Graphic ON (or OFF), flashing

Pressing and releasing the side (Select) button toggles between ON and OFF. Pressing and releasing the front (Advance) button accepts the selection and advances to SET MAX DEPTH ALARM VALUE (if set ON) or SET TURN ALARM (if set OFF).

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

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Fig. 39 - Set Ascent Alarm



SET MAX DEPTH ALARM VALUE

Factory set for 100 FT, the MAX DEPTH ALARM VALUE can also be set from 30 to 330 FT (9 to 99 M) in increments of 10 FT (3 M).

After accepting ON as the setting for DEPTH ALARM ON/OFF, the SET MAX DEPTH ALARM VALUE screen appears with the set point flashing. Appearing on the screen (Fig. 41) will be -

- Alpha graphic DEEP
- Alarm (speaker) icon
- Graphics MAXIMUM and FEET (or METERS)
- Numerical Depth value, flashing

Pressing and holding the side (Select) button scrolls through the Set Points at a rate of 4 per second. Pressing and releasing the front (Advance) button accepts the selection and/or advances to SET TURN ALARM.

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

SET TURN PRESSURE ALARM ON/OFF

Factory set ON, the TURN PRESSURE ALARM can also be set OFF. When set OFF, the Alarm will not sound as Tank Pressure decreases toward 0 PSI (BAR).

To access SET TURN PRESSURE ALARM while viewing the SET 2 GO TO screen, press/release the front (Advance) button 4 times. Appearing on the screen (Fig. 42) will be -

- Alpha graphic TURN
- Alarm (speaker) icon
- Graphic ON (or OFF), flashing

Depressing and releasing the side (Select) button toggles between ON and OFF. Depressing and releasing the front (Advance) button accepts the selection and/or advances to SET TURN PRESSURE VALUE (if set ON) or SET END ALARM (if set OFF).

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

SET TURN PRESSURE ALARM VALUE

Factory set for 1500 PSI, the TURN PRESSURE ALARM VALUE can also be set from 1000 to 3000 PSI (69 to 205 BAR) in increments of 250 PSI (17 BAR).

After accepting ON as the setting for TURN PRESSURE ALARM ON/OFF, the SET TURN PRESSURE ALARM VALUE screen appears with the set point flashing. Appearing on the screen (Fig. 43) will be -

- Alpha graphic TURN
- Alarm (speaker) icon
- Numerical Tank Pressure value, flashing
- Graphic PSI (or BAR)

Pressing and holding the side (Select) button scrolls through the Set Points at a rate of 4 per second. Pressing and releasing the front (Advance) button accepts the selection and advances to SET END PRES-SURE ALARM.

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.



Fig. 41 - Set Depth Alarm Value



Fig. 42 - Set Turn Pressure Alarm



Fig. 43 - Set Turn Pressure Alarm Value

SET END PRESSURE ALARM ON/OFF

Factory set ON, the END PRESSURE ALARM can also be set OFF. When set OFF, the Alarm will not sound as Tank Pressure decreases toward 0 PSI (BAR).

To access SET END PRESSURE ALARM while viewing the SET 2 GO TO screen, press/release the front (Advance) button 5 times. Appearing on the screen (Fig. 44) will be -

- Alpha graphic END
- Alarm (speaker) icon
- Graphic ON or OFF, flashing

Pressing and releasing the side (Select) button toggles between ON and OFF. Pressing and releasing the front (Advance) button accepts the selection and advances to SET END PRES-SURE VALUE (if set ON) or SET RESERVE TIME ALARM (if set OFF).

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

SET END PRESSURE ALARM VALUE

Factory set for 500 PSI, the END PRESSURE ALARM VALUE can also be set from 300 to 1500 PSI (20 to 104 BAR) in increments of 100 PSI (7 BAR).

After accepting ON as the setting for END PRESSURE ALARM ON/OFF, the SET END PRESSURE ALARM VALUE screen appears with the set point flashing. Appearing on the screen (Fig. 45) will be -

- Alpha graphic END
- Alarm (speaker) icon
- Numerical Tank Pressure value, flashing
- Graphic PSI or BAR

Pressing and holding the side (Select) button scrolls through the Set Points at a rate of 4 per second. Pressing and releasing the front (Advance) button accepts the selection and/or advances to SET RESERVE ALARM.

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

SET RESERVE TIME (Dive Time Remaining) ALARM ON/OFF

The Dive Time Remaining display shows No Deco Time, O2 Time, or Air Time Remaining, the least available at that moment. Whichever decreases to the value set will sound the Alarm.

Factory set ON, the RESERVE TIME ALARM can also be set OFF. When set OFF, the Alarm will not sound as Dive Time Remaining decreases toward 0 minutes.

To access SET RESERVE TIME ALARM while viewing the SET 2 GO TO screen, press/release the front (Advance) button 6 times. Appearing on the screen (Fig. 46) will be -

- Alpha graphic RES
- Alarm (speaker) icon
- · Graphic ON or OFF, flashing
- Nitrogen and O2 Bar Graphs
- Tank icon

Pressing and releasing the side (Select) button toggles between ON and OFF.

Pressing and releasing the front (Advance) button accepts the selection and/or advances to SET RESERVE TIME (if set ON) or SET DECO ALARM (if set OFF).



Fig. 44 - Set End Pressure Alarm



Fig. 45 - Set End Pressure Alarm Value



Fig. 46 - Set Reserve Time Alarm

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

SET RESERVE TIME (DTR) ALARM VALUE

Factory set for 5 minutes, the RESERVE TIME ALARM VALUE can also be set from 1 to 30 minutes in increments of 1 minute.

After accepting ON as the setting for RESERVE TIME ALARM ON/OFF, the SET RESERVE TIME ALARM VALUE screen appears with the set point flashing. Appearing on the screen (Fig. 47) will be -

- Alpha graphic RES
- Alarm (speaker) icon
- Reserve Time Value, flashing
- Nitrogen and O2 Bar Graphs
- Tank icon

Pressing and holding the side (Select) button scrolls through the Set Points of at a rate of 4 per second. Pressing and releasing the front (Advance) button accepts the selection and/or advances to SET DECO ALARM.

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

SET DECO ALARM ON/OFF

Factory set ON, the DECO ALARM can also be set OFF. When set OFF, the Alarm will not sound upon entry into Decompression Dive Mode.

To access SET DECO ALARM while viewing the SET 2 GO TO screen, press/release the front (Advance) button 7 times. Appearing on the screen (Fig. 48) will be -

- Alpha graphic DECO
- Alarm (speaker) icon
- Graphic ON (or OFF), flashing
- Nitrogen Bar Graph

Depressing and releasing the side (Select) button toggles between ON and OFF. Depressing and releasing the front (Advance) button accepts the selection and advances to SET PO2 ALARM.

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

SET PO2 ALARM ON/OFF

Factory set ON, the PO2 ALARM can also be set OFF. When set OFF, the Alarm will not sound upon as the Level of PO2 increases.

To access SET PO2 ALARM while viewing the SET 2 GO TO screen, press/release the front (Advance) button 8 times. Appearing on the screen (Fig. 49) will be -

- Alpha graphic PO2
- Alarm (speaker) icon
- Graphic ON (or OFF), flashing
- O2 Bar Graph
- Graphic Nitrox

PES OF

Fig. 47 - Set Reserve Time Alarm



Fig. 48 - Set Deco Alarm



Fig. 49 - Set PO2 Alarm

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

SET 3 GROUP (UTILITIES)

Pressing and releasing the side (Select) button 3 times while the SET GO TO screen is displayed, accesses the SET 3 GO TO screen.

Pressing and releasing the front (Advance) button 1 time while SET 3 GO TO is displayed, accesses the SET H2O SENSOR screen with the set point flashing.

SET H2O SENSOR (WET ACTIVATION) ON/OFF

Factory set ON, the H2O SENSOR can also be set OFF. When set OFF, the Wisdom 3 will not activate upon immersion in water. Appearing on the screen (Fig. 50) will be -

- Alpha graphic H2O
- Graphic ON (or OFF), flashing
- Graphic SENSOr

Fig. 50 - Set H2O Sensor



Fig. 51 - Set Units

Pressing and releasing the side (Select) button toggles between ON and OFF. Pressing and releasing the front (Advance) button accepts the selection and advances to SET UNITS.

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

SET UNITS (IMPERIAL/METRIC)

Factory set for Imperial, Units of Measure can also be set for Metric. Units of Measure must be set prior to setting parameters that contain numerical Values

To access SET UNITS while viewing the SET 3 GO TO screen, press/release the front (Advance) button 2 times. Appearing on the screen (Fig. 51) will be -

• Alpha graphics FT, F, PSI (or M, C, BAR) flashing

Pressing and releasing the side (Select) button toggles between Imperial and Metric units. Pressing and releasing the front (Advance) button accepts the selection and advances to SET SAMPLE RATE.

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

SET SAMPLE RATE VALUE

Sample Rate is the interval at which data is sampled for storage in memory for subsequent download to the associated PC software program. This setting has no effect on the Rate at which data is Sampled for screen displays that you view during unit operation.

Factory set for a Rate of 15 seconds (allowing 15 hours of data), Sampling Rate can also be set for 30 seconds (for 30 hours) or 60 seconds (for 60 hours).

- Alpha graphic SAMP
- Graphic TIME
- Rate of :15/:30/:60 (seconds) and graphic 15/30/60 hour, flashing

Pressing and releasing the side (Select) button sequences through the Rates. Pressing and releasing the front (Advance) button accepts the selection and advances to SET DEEP STOP.

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

SET DEEP STOP ON/OFF

Factory set OFF, the No Deco Deep Stop can also be set ON. When set ON, the Deep Stop feature will trigger upon descent deeper than 80 FT (24 M) and calculate a Deep Stop based on 1/2 the Max Depth achieved during the dive. Appearing on the screen (Fig. 53) will be -

- Alpha graphic DS (= Deep Stop)
- Graphic ON (or OFF), flashing

Pressing and releasing the side (Select) button toggles between OFF and ON. Pressing and releasing the front (Advance) button accepts the selection and advances to SET 3 GO TO.

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

SET 4 GROUP (DATE/TIME)

Pressing and releasing the side (Select) button 4 times while the SET GO TO screen is displayed, accesses the SET 4 GO TO screen.

Pressing and releasing the front (Advance) button 1 time while SET 4 GO TO is displayed, accesses the SET HOUR FORMAT screen with the set point flashing.

SET HOUR FORMAT 12/24

Factory set for 12 hour, the HOUR FORMAT can also be set for 24 Hour. Appearing on the screen (Fig. 54) will be -

- Alpha graphic HOUR
- Graphic 12 or 24, flashing
- Graphic TIME

Pressing and releasing the side (Select) button toggles between 12 and 24. Pressing and releasing the front (Advance) button accepts the selection and/or advances to SET HOUR.

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.





Rate







28

SET HOUR

Factory set for Hour 0, the HOUR can also be set for Hours 1 through 23.

To access SET HOUR while viewing the SET 4 GO TO screen, press/release the front (Advance) button 2 times. Appearing on the screen (Fig. 55) will be -

- Alpha graphic AM or PM (if set for 12 Hour Format)
- Graphic TIME
- Numerical Time (hr:min), hh: Hour value flashing

Pressing and holding the side (Select) button scrolls the HOUR from 12: AM through 11: PM (if set for 12 Hour Format), or 0: through 23: (if for 24 Hour Format) in increments of 1 Hour at a rate of 4 per second. Pressing and releasing the front (Advance) button accepts the selection and advances to SET MINUTE.

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

SET MINUTE

Factory set for :00, the MINUTE can also be set for Minute values :01 through :59.

To access SET MINUTE while viewing the SET 4 GO TO screen, press/release the front (Advance) button 3 times. Appearing on the screen (Fig. 56) will be -

- Alpha graphic AM or PM (if 12 Hour Format)
- Graphic TIME
- Numerical Time (hr:min), :mm Minute value flashing

Pressing and holding the side (Select) button scrolls the MINUTES in increments of 1 Minute at a rate of 4 per second.

Pressing and releasing the front (Advance) button accepts the selection and advances to SET YEAR.

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

SET YEAR

Factory set for Year 2002, the YEAR can also be set for Years 2002 through 2039.

To access SET YEAR while viewing the SET 4 GO TO screen, press/release the front (Advance) button 4 times. Appearing on the screen (Fig. 57) will be -

- Alpha graphic YEAR
- Graphic TIME
- Numerical Month/Day values previously set
- Numerical Hour/Minute values previously set
- Numerical Year, last 2 digits flashing

Pressing and holding the side (Select) button scrolls the YEAR in increments of 1 Year at a rate of 4 per second.

Pressing and releasing the front (Advance) button accepts the selection and advances to SET MONTH.

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.



Fig. 55 - Set Hour



Fig. 56 - Set Minute



Fig. 57 - Set Year

SET MONTH OF YEAR

Factory set for Month 1, the MONTH can also be set for Months 2 through 12.

To access SET MONTH while viewing the SET 4 GO TO screen, press/release the front (Advance) button 5 times. Appearing on the screen (Fig. 58) will be -

- Alpha graphic MNTH
- Graphic TIME
- · Numerical Month, mm value flashing
- · Numerical Day .dd value previously set
- · Numerical Hour/Minute hh:mm values previously set
- · Numerical Year value previously set

Pressing and holding the side (Select) button scrolls the MONTH in increments of 1 Month at a rate of 4 Set Points per second.

Pressing and releasing the front (Advance) button accepts the selection and advances to SET DAY.

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.

SET DAY

Factory set for Day 01, the DAY can also be set for Days 02 through 31.

To access SET DAY while viewing the SET 4 GO TO screen, press/release the front (Advance) button 6 times. Appearing on the screen (Fig. 59) will be -

- Alpha graphic DAY
- · Numerical Month mm: value previously set
- Numerical Day, .dd value flashing
- Graphic TIME
- · Numerical Hour/Minute hh:mm value previously set
- · Numerical Year value previously set

Pressing and holding the side (Select) button scrolls the DAY in increments of 1 Day at a rate of 4 Set Points per second.

Pressing and releasing the front (Advance) button accepts the selection and advances to SET GO TO.

Pressing Both buttons for < 2 seconds activates the Backlight. Pressing Both buttons for => 2 seconds reverts to the TIME/WET screen. The unit reverts to the TIME/WET screen if neither button is pressed in 2 minutes.







Fig. 58 - Set Day

DIVE MODES

DIVE TIME REMAINING (DTR)

One of the most important pieces of information on Sherwood dive computers is the 'Dive Time Remaining numeric display'. The Wisdom 3 constantly monitors No Decompression status, Oxygen Accumulation, and Air Consumption Rate.

The Dive Time Remaining (DTR) display will indicate No Deco Dive Time Remaining (NDC), Air Time Remaining (ATR), or O2 Dive Time Remaining (OTR), whichever time is the least amount available.

- When NDC is displayed as DTR on the Main (Fig. 60a), ATR is displayed on ALT 1 (Fig. 61a).
- When ATR is displayed as DTR on the Main (Fig. 62a), NDC is displayed on ALT 1 (Fig. 63a).
- When OTR is displayed as DTR on the Main (Fig. 64a), ATR is displayed on ALT 1 (like Fig. 61).

No Deco Dive Time Remaining (NDC)

No Deco Dive Time Remaining is the maximum amount of time that you can stay at your present depth before entering a Decompression situation. 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 one is closest to this maximum level is the controlling compartment for that Depth. Its resulting value will be displayed numerically along with the SAFE MINUTES icon and graphically as the Nitrogen Bar Graph.

As you ascend from Depth following a dive that has approached the No Decompression Limit, the Nitrogen Bar Graph 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 Sherwood dive computers offer.

The no decompression Algorithm is based upon Haldane's theory using maximum allowable nitrogen levels developed by Merrill Spencer. Repetitive diving control is based upon experiments designed and conducted by Dr. Ray Rogers and Dr. Michael Powell in 1987. Diving Science and Technology[®] (DSAT), a corporate affiliate of PADI[®], commissioned these experiments.

O2 Dive Time Remaining (OTR)

Oxygen Accumulation (saturation or exposure) during a dive, or 24 hour period, appears graphically as the Oxygen Accumulation (O2) Bar Graph. As time remaining before reaching the Oxygen Exposure Limit decreases, segments are added to the O2 Bar Graph (O2BG).

When the amount of time remaining before reaching the O2 Limit becomes less than the NDC, calculations for that depth will be controlled by O2. OTR will then appear as DTR on the Main. As O2 accumulation continues to increase, the O2 Bar Graph will enter the Caution Zone. If OTR continues to decrease, the O2BG will enter the Danger Zone and the full O2BG will flash.

Air Time Remaining (ATR)

The Wisdom 3 calculates ATR using a patented algorithm that is based on a diver's Air Consumption Rate and current depth. Tank pressure is measured once each second and an average rate of consumption is calculated over a 60 second period. This rate of consumption is then used in conjunction with a knowledge of the depth dependence to predict the Air required for the diver to make a safe controlled ascent including any required Decompression Stops.

Air Consumption and Depth are continuously monitored and ATR reflects any change in circumstances. For example, when you suddenly find yourself swimming against a strong current and begin breathing more rapidly, the Wisdom will recognize the change and adjust the ATR accordingly.

Remember, ATR is the time you can remain at your present Depth and still surface with the Tank Pressure Reserve that you selected during setup (End Pressure Alarm Set Point).

When ATR (Fig. 62a) decreases to zero, you should immediately initiate a controlled Ascent while monitoring your Tank Pressure. However, there is no reason to panic, the Wisdom 3 has allowed for the Air necessary for a safe ascent including any Decompression Stops required.





Fig. 60 - Dive Main (DTR is NDC)



Fig. 61 - Dive Alt (if NDC is on Main)



Fig. 62 - Dive Main (DTR is ATR)



Fig. 63 - Dive Alt (ATR is on Main)



Fig. 64 - Dive Main (DTR is OTR)

Example:

- You set the End Pressure Alarm for 300 PSI (20.5 BAR)
- You are at a Depth of 60 FT (20 M)
- Air Time Remaining decreases to 0 (minutes)
- You Ascend at a maximum rate of 30 FPM (10 MPM)
- You surface with 300 PSI (20.5 BAR) pressure still in your Tank

OPERATIONAL DIVE MODES

During Dive Modes, the Wisdom displays a Main (Default) screen of information relevant to that Dive Mode and Alternate screens that display secondary information.

NO DECO MAIN DISPLAY (DEFAULT) (Fig. 65)_

Displayed from left to right and top to bottom are -

- Max Depth and graphics MAXIMUM and FEET (or METERS)
- Bottom Time (hr:min) and graphic DIVE TIME
- Mode icon NITROX or AIR
- Current Depth and graphic FEET (or METERS)
- Dive Time Remaining (min) (NDC, ATR, or OTR) and graphic SAFE MINUTES
- Cylinder Pressure and graphic PSI (or BAR)
- Bar Graphs NiBG, O2BG (if Nitrox), ARI (if ascending)

Depressing the front (Advance) button activates the Backlight. Pressing/releasing the side (Select) button (< 2 seconds) accesses Alternate Display #1. Depressing the side (Select) button for 2 seconds, when deeper than 80 feet (24 meters), accesses Deep Stop Preview screen, if it is set ON.

NO DECO ALTERNATE DISPLAY #1 (Fig. 66)

Displayed from left to right and top to bottom are -

- Temperature and graphic F (or C)
- Time of Day (hr:min) and graphic TIME
- Mode icon NITROX or AIR
- Current Depth and graphic FEET (or METERS)
- ATR (or NDC) (min) and graphic SAFE MINUTES, and Tank icon if ATR
- Cylinder Pressure and graphic PSI (or BAR)
- Bar Graphs NiBG, O2BG (if Nitrox), ARI (if ascending)

Depressing the front (Advance) button activates the Backlight. Pressing/releasing the side (Select) button accesses Alternate Display #2 (if Nitrox). The display reverts to the Main after 5 seconds if S is not pressed.

NO DECO ALTERNATE DISPLAY #2 (Fig. 67)

Displayed from left to right and top to bottom are -

- Current PO2 level (ATA) and alpha graphic PO2
- Mode icon NITROX or AIR
- Current Depth and graphic FEET (or METERS)
- FO2 Set Point (ATA) and graphic FO2%
- Cylinder Pressure and graphic PSI (or BAR)
- Bar Graphs NiBG, O2BG (if Nitrox), ARI (if ascending)

Depressing the front (Advance) button activates the Backlight. Pressing/releasing the side (Select) button reverts to the Main. The display reverts to the Main after 5 seconds if S is not pressed.



Fig. 65 - No Deco Main



Fig. 66 - No Deco Alternate #1



Fig. 67 - No Deco Alternate #2

NO DECO DEEP STOP

On No Deco dives in which Depth exceeds 80 FT (24 M), a Deep Stop Preview screen can be accessed that will display the graphic DEEP with a Stop Time of 2:00 (min:sec) with STOP and TIME icons, and a recommended Stop Depth calculated to be 1/2 the Max Depth. The display will revert to the Main after 5 seconds.

NO DECO DEEP STOP (DS) PREVIEW (Fig. 68)_

Displayed from left to right and top to bottom are -

- Graphic DSP (= Deep Stop Preview)
- Stop Depth of 1/2 Max Depth and graphic FEET (or METERS)
- Countdown Timer (min:sec) and graphic TIME STOP
- Current Depth and graphic FEET (or METERS)
- Dive Time Remaining (min) (NDC, ATR, or OTR) and graphic SAFE MINUTES
- Mode (AIR or NITROX) icon
- Cylinder Pressure and graphic
- Applicable Bar Graphs NiBG, O2BG (if Nitrox), ARI (if ascending)

The display reverts to the Main after 5 seconds.

- > The intent of this screen is to suggest that a Stop should be made as indicated to help reduce tissue nitrogen loading prior to final ascent.
- > The Preview screen will not be available for viewing once you ascend above the calculated Stop Depth.

The Deep Stop is not required and although recommended, it does not have to be taken.

Upon ascent to within 10 FT (3 M) below the calculated Stop Depth, the Deep Stop Main will replace the No Deco Main.

NO DECO DEEP STOP (DS) MAIN (Fig. 69)_

Displayed from left to right and top to bottom are -

- Graphic DS
- Stop Depth of 1/2 Max Depth and graphic FEET (or METERS)
- Countdown Timer (min:sec) and graphic TIME STOP
- Current Depth and graphic FEET (or METERS)
- Dive Time Remaining (min) (NDC, ATR, or OTR) and graphic SAFE MINUTES
- Mode (AIR or NITROX) icon
- Cylinder Pressure and graphic
- Applicable Bar Graphs NiBG, O2BG (if Nitrox), ARI (if ascending)

Pressing the front (Advance) button activates the Backlight. Pressing/releasing the side (Select) button accesses Alternate Displays.

In the event that you descend 10 FT (3 M) below, or ascend 10 FT (3 M) above the Stop Depth, the No Deco Main will be displayed.

If you return to within the +/- 10 FT (3 M) range within 10 seconds, the DS Main will reappear with the countdown still in progress.

If you remain out of the range for more than 10 seconds during the countdown, the Deep Stop will be canceled for the remainder of that dive.

There is no penalty if the Stop is ignored and ascent (or other activity) is continued.

When the countdown reaches 0:00, the No Deco Main will be displayed and the Deep Stop feature will be disabled for the remainder of that dive.

The Deep Stop feature will be disabled and it's screens not displayed for the remainder of that dive, if you enter Deco or High O2 (=> 80%) or descend deeper than 190 FT (63 M).

During High PO2 (=> Alarm setting), the DS screen information will be replaced with High PO2 information.



Fig. 68 - No Deco Deep Stop Preview



Fig. 69 - No Deco Deep Stop Main

NO DECO SAFETY STOP

Upon ascending to 20 FT (6 M) on any No Decompression dive in which Depth exceeded 30 FT (9 M), 3 beep Alert is sounded and a Safety Stop screen appears with a countdown timer beginning at 3:00 (min:sec) and counting down to :00.

The Safety Stop is not mandatory and there is no penalty if you surface during the countdown period.

In the event that you descend below 30 FT (9 M) during the countdown, the No Deco Main screen replaces the Safety Stop screen which reappears upon ascent to 20 FT (6 M).

Displayed from left to right and top to bottom are (Fig. 70) -

- Graphics SAFE > STOP > 20FT (scrolling, each on for 2 sec)
- Stop Depth of 20 feet (6 meters) and graphic FEET (or METERS)
- Countdown Timer (min:sec) and graphic STOP
- Current Depth and graphic FEET (or METERS)
- Dive Time Remaining (min) (NDC, ATR, or OTR) and graphic SAFE MINUTES
- Mode (AIR or NITROX) icon
- Cylinder Pressure and graphic
- Applicable Bar Graphs NiBG, O2BG (if Nitrox), ARI (if ascending)

Pressing the front (Advance) button activates the Backlight. Pressing the side (Select) button accesses Alternate Displays.



Fig. 70 - No Deco Safety Stop Main

DIGITAL GAUGE MODE

When set for Digital Gauge Mode, the Wisdom 3 operates without providing any decompression or oxygen monitoring functions.

After conducting a Gauge dive, a 24 hour surface interval is then required for the unit to operate as a full function diving computer.

Displayed from left to right and top to bottom are (Fig. 71)-

- Maximum Depth and graphics MAXIMUM and FEET (or METERS)
- Bottom Time and graphic DIVE TIME
- Mode icon GAUGE
- Current Depth and graphic FEET (or METERS)
- Air Time Remaining (min) and graphic SAFE MINUTES and Tank icon
- Cylinder Pressure and graphic PSI (or BAR)
- Ascent Rate Indicator (ARI), if ascending

Pressing the front (Advance) button activates the Backlight.

Pressing the side (Select) button accesses the Alternate Display that displays (Fig. 72) -

- Temperature and graphic F (or C)
- Time of Day (hr:min) and graphic TIME
- Mode icon GAUGE
- Current Depth and graphic FEET (or METERS)
- Cylinder Pressure and graphic PSI (or BAR)
- Ascent Rate Indicator (ARI), if ascending



Fig. 71 - Digital Gauge Main



Fig. 72 - Digital Gauge Alternate

A cautionary High PO2 Mode is entered upon reaching .20 ATA less than the Maximum PO2 Alarm Set Point.

Upon reaching the Alarm Set Point, the Audible Alarm sounds, the Red LED flashes, and the message HIGH > PO2 scrolls at the top of the screen (each on 1/2 second).

Displayed from left to right and top to bottom are (Fig. 73) -

- Alpha graphics UP > HIGH > PO2 (scrolling, each on for 2 seconds)
- PO2 Value (flashing if PO2 =>1.60, or Alarm set point) and graphic PO2
- UP Arrow (flashing if PO2 =>1.6, or Alarm set point)
- Graphic NITROX
- Current Depth and graphic FEET (or METERS)
- Dive Time Remaining (min) (NDC, ATR, or OTR) and graphic SAFE MINUTES
- Bar Graphs (NiBG, O2BG, ARI if ascending), maximum O2BG segment on (flashing if PO2 =>1.6, or Alarm set point)
- Cylinder Pressure and graphic PSI (or BAR)

Pressing the front (Advance) button deactivates the Audible Alarm and red LED, changes the scroll message and rate, and activates the Backlight.

Pressing the side (Select) button accesses the Alternate Display (Fig. 74).

HIGH 02 DIVE MODE

A cautionary High O2 Mode is entered upon reaching 80% (240 OTU) of the Maximum per dive allowable O2 of 300 SOTU (Single Oxygen Toxicity Unit) or 24-hour period allowable O2 saturation of 300 DOTU (Daily Oxygen Toxicity Unit). The Oxygen Bar Graph (O2BG) shows the maximum of either SOTU or DOTU.

Upon reaching 80% (240 OTU), the Audible Alarm sounds, the Red LED flashes, and the message HIGH > O2 scrolls at the top of the screen (each on 1/2 second).

When O2 saturation becomes equal to or greater than 300 OTU (100% limit), all O2BG segments flash in conjunction with the red LED light and sounding of the Audible Alarm.

Displayed from left to right and top to bottom are (Fig. 75) -

- Graphics UP > HIGH > O2 (scroll, each on for 2 seconds)
- O2 Saturation (%) and graphic SAt
- UP Arrow (flashing if O2 =>80%)
- Graphic NITROX
- Current Depth and graphic FEET (or METERS)
- O2 Time (0 minutes if O2 = 100%) and graphic SAFE MINUTES
- Bar Graphs (NiBG, O2BG, ARI), full O2BG flashing if O2 = 100% Sat)
- Cylinder Pressure and graphic PSI (or BAR)

Pressing the front (Advance) button deactivates the Audible Alarm and red LED, changes the scroll message and rate, and activates the Backlight.

Pressing the side (Select) button accesses the Alternate Display (Fig. 76).

DECOMPRESSION DIVE MODE

Decompression Dive Mode is entered when nitrogen absorption computations determine that you cannot safely surface without stopping at a predetermined depth to allow off gassing of absorbed nitrogen.

The red LED flashes, the Audible Alarm sounds, and the message DECO > STOP scrolls at the top of the screen (each on 1/2 second) (Fig. 77).

Alternate displays are accessible that return to the Main Display after 5 seconds.



Wisdom 3 DC Manual

Fig. 73 - High PO2 Main



Fig. 74 - High PO2 Alternate



Fig. 75 - High O2 Main



Fig. 76 - High O2 Alternate



Fig. 77 - Deco Entry

- Graphics DECO > STOP > XX FT (or M) (scrolls, each on for 2 seconds)
- Stop Depth and graphic FEET (or METERS)
- Stop Time and graphic TIME-STOP
- UP Arrow on flashing, if more than 10 feet (3 meters) below the required Stop Depth. The Arrow is removed from the display when within 10 feet (3 meters) below the required Ceiling Stop Depth.
- Mode icon NITROX (or AIR)
- Current Depth and graphic FEET (or METERS)
- Total Ascent Time (min) and graphic TOTAL ASCENT
- Cylinder Pressure and icon
- Applicable Bar Graphs (NiBG, O2BG, ARI)

Pressing the front (Advance) button deactivate the Audible Alarm and activates the Backlight. Pressing the side (Select) button accesses Alternate Display #1.

DECO STOP ALTERNATE DISPLAY #1 (Fig. 79)_

- Graphics DECO > STOP > XX FT (or M) (scroll, each on for 2 seconds)
- Max Depth and graphics MAXIMUM and FEET (or METERS)
- Elapsed Dive Time (hr:min) and graphic DIVE TIME
- Mode icon NITROX (or AIR)
- Current Depth and graphic FEET (or METERS)
- ATR (min) and graphic SAFE MINUTES and Tank icon
- Cylinder Pressure and graphic PSI (or BAR)
- Applicable Bar Graphs (NiBG, O2BG, ARI)

Pressing the front (Advance) button activates the Backlight. Pressing the side (Select) button accesses Alternate Display #2.

DECO STOP ALTERNATE DISPLAY #2 (Fig. 80)

- Graphics DECO > STOP > XX FT (or M) (scroll, each on for 2 seconds)
- Current PO2 level (ATA) and alpha graphic PO2
- Mode icon NITROX
- Current Depth and graphic FEET (or METERS)
- FO2 Set Point (ATA) and graphic FO2%
- Cylinder Pressure and graphic PSI (or BAR)
- Applicable Bar Graphs (NiBG, O2BG, ARI)

Pressing the front (Advance) button activates the Backlight.

CONDITIONAL VIOLATION UNDER WATER

If you disregard a Decompression obligation (i.e., ascend above the Required Stop Depth), the Wisdom 3 enters a cautionary Conditional Violation Mode. The Audible Alarm sounds, the red LED flashes and the message DOWN > TO > STOP scrolls at the top of the screen (each on 1/2 second). If the situation is corrected within 5 minutes, meaning you descend below the Required Stop Depth, the unit continues to function in Decompression Mode. Otherwise, it enters Delayed Violation Mode indicated by the entire NiBG flashing.

After you surface following a Delayed Violation, and a 5 minute surface interval has elapsed, all NiBG segments flash indicating that the Wisdom 3 has entered Permanent Violation and operation reverts to Violation Gauge Mode for 24 hours.

CONDITIONAL VIOLATION MAIN DISPLAY (Fig. 81)

- Graphics DOWN > TO > STOP (scrolls, each on for 2 seconds)
- Stop Depth and graphic and FEET (or METERS)
- Stop Time (hr:min) and graphic TIME-STOP
- DOWN Arrow on flashing
- Current Depth and graphic FEET (or METERS)
- Total Ascent Time (min) and graphic TOTAL ASCENT
- Cylinder Pressure and icon
- Applicable Bar Graphs (NiBG, O2BG, VARI)





Fig. 79 - Deco Alt #1



Fig. 80 - Deco Alt #2



Fig. 81 - Conditional Violation Main

Pressing the front (Advance) button deactivates the Audible Alarm and red LED, and activates the Backlight. Alternate displays similar to Deco can be accessed with the side (Select) button.

CONDITIONAL VIOLATION ON SURFACE

If you ignore a Decompression obligation and ascend to the surface, the Wisdom 3 enters Conditional Violation on Surface. Additional displays are not then available.

While on the surface, the unit remains in Conditional Violation for up to 5 minutes. If the Conditional Violation Mode is corrected before 5 minutes have elapsed, meaning you descend below the Required Stop Depth, the unit continues operation in Decompression Mode. Otherwise, the unit enters Immediate Violation Mode indicated by the entire NiBG flashing. Operation then reverts to Violation Gauge Mode for 24 hours.

DELAYED VIOLATION #1 - ABOVE STOP DEPTH > 5 MINUTES (Fig. 82)

As previously described for Conditional Violation, if you ascend above a required Decompression Stop, you would need to descend to that Stop Depth for the Time indicated to complete the Decompression obligation.

Delayed Violation #1 is a continuation of Conditional Violation which occurs in the event that you remain



Fig. 82 - Delayed Violation #1

above the Stop Depth for longer than 5 minutes. At 5 minutes, the Audible Alarm will sound and the red LED will flash (even if set Off). The DOWN Arrow and Total Ascent Time will continue to flash and the graphic message DOWN > TO >

The DOWN Arrow and Total Ascent Time will continue to flash and the graphic message DOWN > TO > STOP will continue to scroll at the top of the screen. The full NiBG will also flash until you descend to the Required Stop Depth indicated.

While above the Required Stop Depth, no off-gassing credit will be given and for each minute that you remain above Required Stop Depth indicated, 1-1/2 minutes of Penalty Time will be added to the Decompression Stop Time and Total Ascent Time.

DELAYED VIOLATION #2 - EXCEEDED CEILING (Fig. 83)

When Decompression requires a Ceiling Stop Depth greater than 60 FT (18 M), but less than 70 FT (21 M), the Wisdom 3 enters Delayed Violation #2. The Audible Alarm will sound and the red LED will flash (even if set Off).

The UP Arrow and entire NiBG flash and the graphic message DECO > STOP > 60FT will scroll at the top of the screen.

To get back to the surface, you would have to ascend to just deeper than 60 FT (18 M), staying as close to that Depth as possible until the Stop Depth of 50 FT (18 M) appears on the screen.

You would then continue to follow the Decompression schedule indicated to the surface.

DELAYED VIOLATION #3 - EXCEEDED MAXIMUM OPERATING DEPTH (Fig. 84)

When the Maximum Operating Depth of 330 FT (99.9 M) is exceeded, or 399 FT (120 M) when Digital Gauge Mode is set ON, the Wisdom 3 enters Delayed Violation #3 displaying Current Depth and Max Depth as 3 dashes (- - -) signifying out of range.

The Audible Alarm will sound and the red LED will flash (even if set Off). The UP Arrow and NiBG segments will flash and the message UP > TOO > DEEP will scroll at the top of the screen.

When you ascend to, or above the Maximum Operating Depth, the Current Depth display is restored, however, Max Depth remains as 3 dashes (- - -).

After you surface following any Delayed Violation, and a 5 minute surface interval has elapsed, the full NiBG and O2BG flash indicating that the Wisdom 3 is in Permanent Violation and operation reverts to Violation Gauge Mode for 24 hours.



Fig. 83 - Delayed Violation #2



Fig. 84 - Delayed Violation #3

VIOLATION/GAUGE MODE UNDER WATER (Fig. 85)

When a Decompression Stop Depth greater than 70 FT (21 M) is required, the Wisdom 3 enters Permanent Violation Mode and reverts to Violation Gauge Mode operation for the remainder of that dive and subsequent dives made within a 24 hour period.

Once in the Violation Gauge Mode, the Wisdom 3 operates with limited functions without any nitrogen or oxygen monitoring or calculating functions.

Displayed from left to right and top to bottom are -

- Maximum Depth and graphics MAXIMUM and FEET (or METERS)
- Elapsed Dive Time (hr:min) and graphic DIVE TIME
- Mode icon AIR (or NITROX)
- Current Depth and graphic FEET (or METERS)
- Cylinder Pressure and graphic PSI (or BAR)
- Variable Ascent Rate Indicator (ARI)

Pressing the front (Advance) button activates the Backlight. Pressing the side (Select) button displays Air Time Remaining (min).

VIOLATION GAUGE MODE ON SURFACE (Fig. 86)

On the surface, the entire NiBG and O2BG flash. Plan Mode is not available for 24 hours. A continuous 24 hour Surface Interval is required for the unit to operate as a full function diving computer.



Fig. 85 - Gauge Mode Underwater



Fig. 86 - Gauge Mode on Surface

CARE

and

MAINTENANCE



WARNING: DO NOT attempt to disassemble any portion of the module other than the Battery Hatch. Doing so may cause a dangerous malfunction, resulting in possible injury or death. Indication of tampering with the module will void the unit's warranty.

WARNING: If any portions of the display are missing or appear dim, or a Low Battery Condition is indicated after Battery replacement, return your Wisdom 3 to an Authorized Sherwood Scuba Dealer for a complete evaluation before attempting to use it.

CARE AND CLEANING

Protect your Wisdom 3 from shock, excessive temperatures, chemical attack, and tampering. Protect the lens against scratches with an Instrument Lens Guard. Small scratches will naturally disappear underwater.



CAUTION: Never spray aerosols of any kind on, or near, the instrument. The propellants may chemically attack the plastic.

- Soak and rinse the Wisdom 3 in fresh water at the end of each day of diving, and check to ensure that the areas around the low pressure (depth) sensor (Fig. 87a), download interface Data Port (Fig. 87b), and buttons are free of debris or obstructions.
- To dissolve salt crystals, soak in a bath of lukewarm water or a solution of 50% white vinegar and 50% fresh water.
- After removal from the bath, place the unit under gently running water and towel dry before storing.
- Transport your unit cool, dry, and protected.



WARNING: Never force any object through any slots or holes of the Housing. Doing so may damage the depth sensor, possibly resulting in erroneous depth and/or dive time remaining displays.



WARNING: If a Low Battery Condition is indicated prior to a dive, DO NOT attempt to dive with the Wisdom 3 until the Battery is replaced.

INSPECTIONS AND SERVICE

Your Wisdom 3 should be **inspected annually** by an Authorized Sherwood Scuba Dealer who will perform a factory prescribed function check and inspection for damage or wear. To keep the 2 year limited warranty in effect, this inspection must be completed one year after purchase (+/- 30 days).

Sherwood Scuba recommends that you continue to have this inspection performed every year to ensure it is working properly.

The costs of annual inspections are not covered under the terms of the 2 year limited warranty.



WARNING: If you are in doubt about the accuracy of your WISDOM's Depth readings, DO NOT attempt to dive with it until it has been inspected by Sherwood Scuba.

It is possible to damage the Depth Sensor of the Wisdom 3 if it is not pressure tested properly. Ensure that the Dealer adheres to the following warning.



WARNING: Ensure that the Wisdom 3 is never pressure tested in an air environment. Doing so may damage the Depth Sensor, possibly resulting in erroneous Depth or Time readings.

To Obtain Service

Take you Wisdom 3 to an Authorized Sherwood Scuba Dealer.



NOTE: The procedures that follow must be closely adhered to. Damage due to improper Battery replacement is not covered by the WISDOM's warranty.

BATTERY REPLACEMENT

The Battery Compartment should only be opened 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).



Wisdom 3 DC Manual

Fig. 87 - Depth Sensor & Data Port

- SHERWOOD
 - Inspect the Buttons, Lens, and Housing to ensure they are not cracked or damaged.
 - If there is any sign of moisture in the module, DO NOT use the Wisdom 3 until it receives proper service by an Authorized Sherwood Scuba Dealer.



WARNING: If damage or corrosion is found, return your Wisdom 3 to an Authorized Sherwood Scuba Dealer, and DO NOT attempt to use it until it has received factory prescribed service.



NOTE: During the time that the old battery is removed and the new one inserted, nitrogen and oxygen calculations, and settings, will be retained for repetitive dives. If the new battery is not installed within several minutes, it is possible that time calculations and time of day will lose 1 or 2 minutes.

Battery Removal

Examine the Case Back to locate the Battery Cover.

- Apply a coin (not a screwdriver) to the slot of the Battery Cover and turn it counter clockwise to remove it from the Housing (Fig. 88).
- Inspect the O-ring for any signs of deterioration. If found, remove the O-ring by pressing the sides with your finger tips to cause it to protrude slightly from the grooves of the Battery Cover and discard. DO NOT use tools to remove.
- Closely check the threads of the Battery Cover and the Housing for any signs of damage that might impair proper threading. If found, return the unit to your Authorized Sherwood Scuba Dealer, and DO NOT attempt to use it until it has received factory service.
- Lift the Battery out of the Battery Compartment (Fig. 89). Discard of properly.
- Check the metal contacts inside the Battery Compartment for any signs of stress (bending or breakage) and any signs of corrosion indicating entrance of moisture. If found, return the unit to your Authorized Sherwood Scuba Dealer for inspection.

If moisture is found, and you are attempting a repair in the field, proceed as follows:

- Inspect the Lens, Case, and Button areas to ensure there is no damage or cracks.
- Check the O-ring seating surfaces for nicks, cuts, or divots.
- Flush the Battery Cover and Compartment with a solution of 50% white vinegar and 50% fresh water. Rinse thoroughly with fresh water and allow to air dry overnight, or blow dry with a hair dryer set at No Heat.

O-Ring Installation

- Lightly lubricate a new (recommended) Cover O-ring with silicone grease, then stretch it slightly to work it over the slotted top of the Battery Cover. DO NOT roll it over the threads.
- Ensure that it is evenly seated.



NOTE: This O-ring must be a genuine Sherwood Scuba part that can be purchased from an Authorized Sherwood Scuba Dealer. Use of any other O-ring will void the warranty.



CAUTION: Avoid touching the Battery Contacts or flat surfaces of the Battery, skin oil will impair correct contact.

- Insert a new 3 volt type CR2450 Lithium Battery, negative (-) side down into the Battery Compartment, under the metal clips (Fig. 90a).
- Carefully insert the Battery Cover into the Housing and turn it slowly clockwise by hand to ensure correct threading.
- Apply a coin and tighten the Battery Cover until secure (Fig. 91).

Inspection

- Activate the unit and watch carefully as it performs a full diagnostic and Battery check, and enters Surface Mode (TIME or WET screen).
- Observe the LCD display to ensure it is consistently clear and sharp in contrast throughout the screen.



Fig. 88 - Battery Cover Removal



Fig. 89 - Battery Removal



Fig. 90 - Battery Installation

а



Fig. 91 - Battery Cover Secure

REFERENCE

MATERIAL

The Decompression Model used by the Wisdom 3 is based on the no decompression multilevel repetitive dive schedules successfully tested by Dr. Ray Rogers and Dr. Michael Powell. These tests did not include repetitive dives deeper than 90 FT (27 M) or decompression dives. Due to the present unavailability of statistical data, Wisdom 3 decompression predictions are based on U.S. Navy theory.

TISSUE COMPARTMENT CONTROL

The Wisdom 3 tracks twelve tissue compartments with halftimes ranging from 5 to 480 minutes. The Nitrogen Bar Graph always displays the controlling compartment that is the only one important at that time. Think of the Nitrogen Bar Graph as 12 separate transparent displays laid on top of one another. The compartment that has filled up fastest is the only one the viewer can see from the top.

At any particular point, one compartment may be absorbing nitrogen, while another that was previously higher may be off gassing. One compartment hand over control to another compartment at a different depth.

This feature of the Decompression Model is the basis of multilevel diving, one of the most important contributions the Wisdom 3 offers you.

NO DECOMPRESSION LIMITS (NDLS)

Note how the No Decompression Limits for the Wisdom 3 are contrasted with the U.S. Navy limits (Fig. 92). The WISDOM's Dive Planner does not scroll past 190 feet (57 meters), or to depths at which projected dive time is less than one minute .



WARNINGS:

Using the Wisdom 3, just as using the U.S. Navy (or other) No Decompression Tables, is no guarantee of avoiding decompression sickness (i.e., the bends).

Sherwood Scuba advocates responsible diving practices . Decompression diving is inherently hazardous and greatly increases your risk of decompression sickness - even when performed according to the computer's calculations.

In the event that you must make an emergency decompression dive, you must not make another dive for at least 24 hours.

OXYGEN EXPOSURE LIMITS (OTLS)

Predicted exposure limits and oxygen calculations of the Wisdom 3 are based on maximum exposure durations published by the National Oceanic and Atmospheric Administration in the October 1991 NOAA Diving Manual (Fig. 93).

Both central nervous system (CNS) oxygen toxicity and pulmonary oxygen toxicity were taken into consideration when the limits were published by NOAA.

Although CNS oxygen toxicity is considered the primary constraint for higher levels of PO2, there are circumstances in which pulmonary oxygen toxicity can limit exposures.

CNS oxygen toxicity is not considered likely at PO2 levels below 1.30 ATA. It is however related to the diver's work level. Performing strenuous tasks could cause the symptoms of oxygen poisoning to occur at PO2 levels lower than they normally would appear during casual recreational diving.



WARNING: The nitrox features of the Wisdom 3 are intended for use only by recreational divers trained for nitrox diving by an instructor certified by a recognized training agency to teach diving with nitrox.

Diving with enriched nitrogen-oxygen (nitrox) mixtures requires special knowledge of the variations imposed upon divers, their activities, and their equipment by the increased percentage of oxygen. Sherwood Scuba recommends completion of a specialized Nitrox training course by a recognized training agency prior to diving with any enriched nitrogen-oxygen (nitrox) mixtures.

Wisdom 3	USN	
Depth	NDL-mins.	NDL
feet (meters)	Eng (Mestric)i	m
30 (9)	260 (283)	
35		310
40 (12)	137 (144)	200
50 (15)	81 (85)	100
60 (18)	57 (59)	60
70 (21)	40 (41)	50
80 (24)	30 (32)	40
90 (27)	24 (25)	30
100 (30)	19 (20)	25
110 (33)	16 (17)	20
120 (36)	13 (14)	15
130 (39)	11 (11)	10
140 (42)	9 (9)	10
150 (45)	8 (8)	5
160 (48)	7 (7)	5
170 (51)	7 (6)	5
180 (54)	6 (6)	5
190 (57)	5 (5)	

Fig. 92 - NDL Comparison

	Maximum Exposure Time I		
PO2 (ATA)	Per Dive (Min)	Per 24hr (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	

Fig. 93 - OTLs



WARNING: In the event that you exceed the maximum limit of per dive allowable oxygen exposure, it is recommended that you allow a surface interval of at least 2 hours before reentering the water. If you exceed the maximum limit of 24 hour period allowable oxygen exposure, you should allow a surface interval of at least 24 hours before reentering the water.

ALTITUDE DIVING

Diving at high Altitude requires special knowledge of the variations imposed upon divers, their activities, and their equipment by the decrease in atmospheric pressures. Sherwood Scuba recommends completion of a specialized Altitude training course by a recognized training agency prior to diving in high Altitude lakes or rivers.

Atmospheric pressure decreases as Altitude increases above sea level. Weather systems and ambient temperature also affect barometric pressures. Consequently, depth reading instruments that do not compensate for the decrease in ambient pressure indicate depth readings shallower than the depth they are actually at.

The Wisdom 3 automatically compensates for decreased ambient pressures for Altitudes between 3,000 (915 meters) and 14,000 feet (4,270 meters). Its program contains a high altitude algorithm that reduces no decompression and oxygen exposure limits to add a larger zone of caution.

The Wisdom 3 senses ambient pressure when it is activated, every 15 minutes while it is activated, or every 30 minutes when it is not activated. At an Altitude of 3,000 feet (915 meters), it will automatically recalibrate itself to measure depth in feet of fresh water rather than feet of sea water. It will then readjust the no decompression and oxygen limits at additional intervals of 1,000 feet (305 meters). Therefore, when returning to lower Altitudes, diving should not be conducted until the unit automatically clears of any residual nitrogen and oxygen loading and resets to operate at the new lower Altitude.

Altitude Level is displayed on the Data screens when above Sea Level (Fig. 94).



WARNING: The Wisdom 3 will not sense ambient pressures or provide Altitude compensation when it is wet. <u>DO NOT dive at any different Altitude until the unit shuts off and is reactivated</u> at the new Altitude.

If the unit is activated at elevations higher than 14,000 feet (4,270 meters), it will perform a diagnostic check followed by immediate shutdown.

FLYING AFTER DIVING

In 1990 the Undersea and Hyperbaric Medical Society (UHMS) published a set of guidelines aimed at minimizing the possibility of decompression sickness due to **flying** too soon **after diving**. The UHMS suggests* divers using standard air cylinders and exhibiting no symptoms of decompression sickness wait 24 hours after their last dive to fly in aircraft with cabin pressures up to 8,000 feet. (2,440 meters). The two exceptions to this recommendation are:

- If a diver had less than 2 hours total accumulated dive time in the last 48 hours, then a 12 hour surface interval before flying is recommended.
- Following any dive that required a decompression stop, flying should be delayed for at least 24 hours, and if possible, for 48 hours.

* excerpted from "The UHMS Flying After Diving Workshop"

Since the 1990 UHMS guidelines were introduced, data from the Diver's Alert Network (DAN) was introduced that resulted in DAN's position** that "A minimum surface interval of only 12 hours would be required in order to be reasonably assured a diver will remain symptom free upon ascent to altitude in a commercial jet airliner (altitude up to 8,000 feet/2,440 meters). Divers who plan to make daily, multiple dives for several days, or make dives that require decompression stops, should take special precautions and wait for an extended surface interval beyond 12 hours before flight".

** excerpted from "DAN's Position on Recreational Flying After Diving"

Both the UHMS and DAN agree that "There can never be a flying after diving rule that is guaranteed to prevent decompression sickness completely. Rather, there can be a guideline that represents the best estimate for a conservative . . . surface interval for the vast majority of divers. There will always be an occasional diver whose physiological makeup or special diving circumstances will result in the bends".

-	SEA = 0 - 3,000 ft
;	0 - 915 m
	LEV2 = 3,001 - 5,000 ft
	916 - 1,525 m
	LEV3 = 5,001 to 7,000 ft
	1,526 - 2,135 m
	LEV4 = 7,001 - 9,000 ft
	2,136 - 2,745 m
	LEV5 = 9,001 - 11,000 ft
	2,746 - 3,355 m
	LEV6 = 11,001 - 13,000ft
•	3,356 - 3,965 m
	LEV7 = 13,001 - 14,000ft
	3,966 - 4,270 m
	outr = > 14,000 ft
	> 4,270 m



Fig. 94 - Altitude

To reduce the risk of developing decompression sickness after a single no decompression dive, current guidelines suggest waiting 12 hours prior to exposure to atmospheric pressures equivalent to 1,000 feet (330 meters) above sea level, or greater. When repetitive dives are conducted during the same day, or period of days, it is suggested that the interval be increased to a minimum of 24 hours. Note that land travel to higher elevations after diving must also be considered as an exposure to altitude.

CLEAR (RESET)

The Wisdom 3 computer is configured with a feature that allows calculations pertaining to a dive series in progress to be interrupted. Activation of this feature will delete all data accumulated during the dive series necessary for planning a next dive and should only be performed if the user plans to suspend diving for at least 24 hours.

This feature is present to provide institutional users of the computer a means to provide a "clean" computer to subsequent users without having to wait for the computer to complete all calculations in real time. This practice requires strict control to ensure that the "clean" computer is not used by a diver that has been diving within the preceding 24 hours. Failure to follow this practice could adversely affect the accuracy of subsequent calculations by failing to account for previous exposure to elevated nitrogen and oxygen partial pressures.



Fig. 95 - Clear (Reset)



WARNING: Do not attempt to activate the CLEAR (Reset) function on your computer. Proper activation of this feature requires controlled procedures and is restricted to authorized personnel.



WARNING: Improper activation of this feature could expose the user to elevated risk of decompression sickness or oxygen toxicity. This is a serious risk and could result in injury or death.

WARNING: If the CLEAR (Reset) screen appears (Fig. 90) on your computer, cease all operation of the computer buttons and wait at least 24 hours before resuming diving activity.

COMPASS REMOVAL/INSTALLATION INSTRUCTIONS

Tool required: standard flat blade screwdriver

To remove the Compass Module from the Wisdom Console:

- Carefully slide the blade of a small screwdriver under the bottom of the Module at the 12 o'clock position (Fig. C1), carefully lifting the front of the Module upward (Fig. C2).
- Grasp the Module with your fingers and pull it out of the Boot.

To install the Compass Module into the Wisdom Boot:

- Orient the Boot so the Compass cavity faces up.
- Loosely position the Module directly on the Compass cavity of the Boot aligned with the thin red line located at the 6 o'clock position of the wall (center of the viewing notch of the Compass cavity) of the Boot (Fig. C3).
- First, press the Module down into the Boot at the 12 o'clock position.
- Then, with the palm of your hand, press directly down at the 6 o'clock position (Fig. C4) until the Module snaps down into place in the Boot.
- Turn the Compass Bezel to ensure that it rotates properly in both directions.











Fig. C4

SPECIFICATIONS

NO DECOMPRESSION MODEL

Basis:

- Modified Haldanean Algorithm
- 12 tissue compartments

Data Base:

• Diving Science and Technology (DSAT) - Rogers/Powell

Performance:

- · Tissue compartment halftimes (mins.) Spencer's "M" values
- 5, 10, 20, 40, 80, 120, 160, 200, 240, 320, 400, 480
- Reciprocal subsurface elimination
- 60 minute surface credit control for compartments faster than 60 minutes
- · Tissue compartments tracked up to 24 hours after last dive

Decompression Capabilities:

 Decompression stop ceilings at 10, 20, 30, 40, 50, 60 ft (3, 6, 9, 12, 15, 18 m)

Altitude Algorithm:

- Based on NOAA tables
- Oxygen Exposure Limits:
- Based on NOAA tables

SURFACE MODES / SCREENS

- Activation/Diagnostic
- Time/Wet
- Time to Fly / Desat Countdowns
- Data (Air, Nitrox, Gauge)
- Plan (Air, Nitrox)Last (most recent dive data)
- Log (3 screens)
- Log (3 screens
 History
- Simulator (demo dives)
- Set 1 (Basics):
 - Operating Mode (Air, Nitrox, Gauge)
 - PO2 Alarm Value (1.20 to 1.60 ATA)
 - FO2 Level (21 to 50 %)
 - FO2 50% Default (On/Off)
- · Set 2 (Alarms):
 - All Alarms (On / Off)
 - Ascent Alarm (On / Off)
 - Max Depth Alarm (On / Off)
 - Max Depth Alarm Value (30 to 330 ft / 9 to 99 m)
 - Turn Pressure Alarm (On / Off)
 - Turn Pressure Alarm Value (1000 to 3000 psi / 69 to 205 bar)
 - End Pressure Alarm (On / Off)
 - End Pressure Alarm Value (300 to 1500 psi / 20 to 104 bar)
 - Reserve Dive Time Alarm (On / Off)
 - Reserve Dive Time Alarm Value (1 to 30 min)
 - · Deco Alarm (On / Off)
 - PO2 Alarm (On / Off)
- Set 3 (Utilities):
 - Wet Activation (On / Off)
 - · Units of Measure (Imperial / Metric)
 - Sampling Rate (15 / 30 / 60 min)
 - Deep Stop (On / Off)
- Set 4 (Time):
 - Hour Format (12 / 24)
 - Time (Hour, Minute)
 - Date (Year, Month, Day)

SPECIFICATIONS (CONTINUED)

DISPLAY RANGES / RESOLUTION

-			
		Range:	Resolution:
•	Dive Number	0 - 50	1
•	Depth	0 - 399 FT (0 - 120 M)	1 FT (.1 M / 1 M)
•	Maximum Depth	399 FT (120 M)	1 FT (.1 M / 1 M)
•	FO2 Set Point	21 - 50 %	1 %
•	PO2 Value	0.00 - 5.00 ATA	.01 ATA
•	Dive Time Remaining	0:00 - 9:59 hr:min	1 minute
•	Total Ascent Time	0:00 - 9:59 hr:min	1 minute
•	Deco Stop Time	0:00 - 9:59 hr:min	1 minute
•	Bottom Time	0:00 - 9:59 hr:min	1 minute
•	Surface Time	0:00 - 23:59 hr:min	1 minute
•	Temperature	0 to 99 F (-10 to 60 C)	1 degree
•	Cylinder Pressure	0 - 5000 PSI (345 BAR)	5 PSI (.5 BAR)
•	Time to Fly	23:50 - 0:00 hr:min*	1 minute
		(* starting 10 min after	the dive)
•	Time to Desaturate	23:50 - 0:00 hr:min*	1 minute
		(* starting 10 min. after	the dive)
•	Temperature	0 to 99°F (-9 to 60°C)	1°
s	pecial Displays:		Occurrence
•	Diagnostic Display		After Manual Activation
•	Out of Range ()		>330 feet (>99.9 meters)
•	Gauge Mode Countdown	Timer	23:50 to 0:00 hr:min (after violation)

BAR GRAPHS

Ν	itrogen Bar Graph:	<u>segments</u>
•	No Decompression zone	5 (up to 5 displayed)
•	No Deco Caution zone	2 (6 or 7 displayed)
•	Decompression Warning zone	1 (all displayed)

Oxygen (O2) Bar Graph:

Oxygen (O2) Bar Graph:	segments
Normal zone	3 (up to 3 displayed)
 Caution zone 	1 (4 displayed)
 Danger zone 	1 (all displayed)

Ascent Rate Indicator:	<u>60 FT (18 M) and Shallower</u>			Deeper t	<u>Deeper than 60 FT (18 M)</u>		
	segments	FPM	<u>MPM</u>	segments	<u>FPM</u>	MPM	
	Ō	0 - 10	0 - 3	Ō	0 - 20	0 - 6	
Normal Zone	1	11 - 15	3.5 - 4.5	1	21 - 30	6.5 - 9	
Normal Zone	2	16 - 20	5 - 6	2	31 - 40	9.5 - 12	
Normal Zone	3	21 - 25	6.5 - 7.5	3	41 - 50	12.5 - 15	
Caution Zone	4	26 - 30	8 - 9	4	51 - 60	15.5 - 18	
 Too Fast Zone 	5	> 30	> 9	5	> 60	> 18	

OPERATIONAL PERFORMANCE

Function:	Accuracy:
Devite	140/

- Depth ±1% of full scale
- Timers 1 second per day

Dive Counter:

- Displays Dives #1 to 50, 0 if no dive made yet
- Resets to Dive #1, upon reactivation after shutdown

Dive Log Mode:

- · Stores 50 most recent dives in memory for viewing
- After 50 dives, adds 51st dive in memory and deletes the oldest

Altitude:

- Operational from sea level to 14,000 feet (4,270 meters) elevation
- · Compensates for Altitude at elevations higher than 3,000 feet (915 meters) elevation
- No adjustments are made while it is wet

Power:

- Battery 1 - 3 vdc, type CR2450 Lithium battery
- · Shelf life
- Up to 5 years Replacement User replaceable (annual recommended)
- · Life expectancy 300 dive hours (if 1 1 hour dive per activation period) to over
 - 600 dive hours (if 2 or more 1 hour dives per activation period)

SPECIFICATIONS (CONTINUED)

Activation:

- · Manual push button (recommended)
- · Automatic by immersion in water (as a backup, if set ON)
- WET graphic indicates Wet Contacts are bridged (unit must be dried prior to transport or storage).
- Automatically set for AIR Mode operation upon activation
- Remains set for AIR Mode unless the Operating Mode is set for Nitrox or Gauge.
- Cannot be manually activated deeper than 4 FT (1.2 M), if the Water Activation feature is set OFF.
- Cannot be activated at elevations higher than 14,000 feet (4,270 meters)

Shutoff:

- Automatically shuts off if no dive is made within 2 hours after initial activation. Reactivation required.
- · Automatically shuts off 24 hours after last dive (will reactivate if the Wet Activation is set ON and the unit becomes Wet).
- · Cannot be shut off manually.

Setting FO2:

- Nitrox set points from 21 to 50 %
- · If set for 21%, remains set for 21% until changed
- If set for >21%, it reverts to 50% 10 minutes after the dive, if the FO2 Default is ON. If the FO2 Default is OFF, the Value will remain at the number (%) set until changed or the unit shuts Off. Defaults to AIR Mode operation upon shutdown and reactivation.

Operating Temperature:

- In Water between 28 and 95 °F (-2 and 35 °C)
- In Air between 20 and 140 °F (-6 and 60 °C)

DEFAULT SETTINGS AS SHIPPED FROM THE FACTORY

٠	Operating Mode	AIR
٠	PO2 Alarm	ON
٠	PO2 Alarm Value	1.60 ATA
٠	FO2	21%
•	50% FO2 Default	ON
•	All Alarms	ON
٠	Ascent Alarm	ON
٠	Depth Alarm	ON
•	Depth Alarm Value	100 FT
•	Turn Pressure Warning	ON
٠	Turn Alarm Value	1500 PSI
•	End Pressure Alarm	ON
٠	End Alarm Value	500 PSI
•	Reserve Time Alarm	ON
•	Reserve Time Alarm Value	5 minutes
٠	Gas Time (ATR) Warning	< NDL (No Deco N2 or O2)
•	Deco Alarm	ON
٠	Water Sensor (Activation)	ON
٠	Units	Imperial
•	PC Sampling Rate	15 seconds
•	Hour Format	12
•	Time	actual at calibration
•	Date	actual at calibration

<u>ACCESSORIES</u> (optional items available from your Authorized Sherwood Dealer)

Lens Guard

- PC download package (hardware and software)
- · Battery Kit includes 1 battery, 1 battery hatch o-ring, silicone grease
- Compass Kit
- HP Hose Quick Disconnect

GLOSSARY

Air Dive - A dive conducted using air (approximately 21% oxygen & 79% nitrogen) as the breathing gas.

Air Time Remaining (ATR) - The air time a diver has available at that depth before an ascent must begin.

Algorithm - A step-by-step mathematical formula designed to accomplish a particular result (i.e. Dive Time Remaining in the Wisdom 3).

Alternate Display - Additional information accessible by pressing a control button.

Altitude Dive - A dive made at an elevation above sea level (> 3,000 feet/915 meters) when no decompressionlimits are reduced .

Ascent Rate - The speed that a diver ascends toward the surface.

Ascent Rate Indicator - A display that shows ascent rate as a bar graph.

Audible Alarm - A computer emitted tone that alerts the diver to potential danger.

Battery Indicator - An icon displayed while in Surface Time/Wet Mode, indicates a Low Battery Condition.

Caution Zone - The sections of the Nitrogen Bar Graph, O2 Bar Graph, and Ascent Rate Indicator that give a visual warning of a diver's proximity to decompression limits, oxygen tolerance limits, and ascent rate, respectively.

Ceiling - See decompression ceiling.

Clean Dive - A dive preceded by 24 hours of no diving activity.

CNS - Abbreviation for the Central Nervous System of the body.

Competitive Dive - A dive conducted for profit or prize.

Compartment - A term applied to the hypothetical modeling of nitrogen absorption in the tissues (more accurate than the term "tissue" because dive computer models have no direct relation to human tissues).

DCS - Abbreviation for decompression sickness, i.e., "the bends".

DECO - Abbreviation for Decompression.

Decompression Ceiling - The shallowest depth a diver may reach upon ascent without risking decompression sickness.

Decompression Stop - The depth(s) at which a diver must pause during ascent to allow absorbed nitrogen to escape naturally from the tissues. Depth Sensor - an electro-mechanical device that converts water pressure into an electrical signal, that is converted to a visual depth display. DEMO - Abbreviation for demonstration, a variety of modes that display sample dives.

Diagnostic Mode - The first display seen on dive computers after initial activation during which time a self-check for internal faults is performed. Display - A visual readout of information.

Dive Log Mode - A computer display of previous dive information.

Dive Planner - A display of available dive times at 10 foot (3 meter) intervals from 30 to 190 feet. (9 to 57 meters) used when dive planning. Dive Time Remaining - A display of the time before a diver must surface based on no decompression dive time remaining, air time remaining, or O2 time remaining.

Elapsed Dive Time - Total time spent underwater during a dive between 5 feet (1.5 meters) on initial descent to 3 feet (1 meter) on final ascent.

FO2 - The fraction (percent / 100) of oxygen (O2) in the breathing gas mixture.

Icon - a small pictorial representation of an operational mode

LCD - Abbreviation for liquid crystal display, an easily viewed low voltage display usually found on dive computers

Maximum Depth - The deepest depth attained during a dive.

Mode - A specific set of functions in a dive computer.

Multi-level Dive - A type of dive profile where the diver spends various times at different depths (opposite of a "Square Wave" dive profile).

Nitrogen Bar Graph - A graphic display of simulated nitrogen absorption on Sherwood dive computers.

Nitrox - A nitrogen-oxygen breathing gas mixture that contains a higher fraction of oxygen than air.

Nitrox Dive - A dive conducted using nitrox (22 to 50 % O2) as the breathing gas.

NOAA - Abbreviation for National Oceanic and Atmospheric Administration.

No Deco - Abbreviation for No Decompression.

No Deco Time Remaining (NDC) - The amount of dive time remaining based on no-decompression status.

No Decompression - Any part of a dive where the diver can surface without requiring a decompression stop.

O2 Bar Graph - A visual representation of oxygen accumulation on a dive computer display.

OTU - Abbreviation for oxygen tolerance unit. A Hamilton's Repex method term for oxygen dose.

Out of Range - The point at which a dive computer can no longer supply correct dive information.

Oxygen Tolerance - Dose or exposure to the physiological affects of elevated levels of oxygen.

Oxygen Toxicity - The adverse physiological affects of exposure to elevated levels of oxygen.

Partial Pressure - The proportion of the total pressure contributed by a single gas in a mixture of gases.

PO2 - Partial pressure of oxygen. The proportion of total pressure of a gas mixture contributed by oxygen.

Repetitive Dive - Any dive that takes place within 12 hours of a previous dive.

Safety Stop - A depth at which a diver may choose, but is not required, to pause during ascent to allow absorbed nitrogen to escape naturally from the tissues.

Square Wave Dive - A type of dive profile where the entire dive is spent at one depth between descent and ascent.

Tissue Compartment - See Compartment.

Transducer - An electro-mechanical device in a dive computer that acts as a depth or pressure sensor.

Transition Period - The first 10 minutes of surface time after ascending above 3 feet (1 meter) from a dive.

Altitude>	0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000	13000
Depth														
30	4:20	4:20	3:35	3:21	3:07	2:55	2:45	2:36	2:28	2:21	2:15	2:10	2:04	1:58
40	2:17	2:17	1:53	1:43	1:36	1:30	1:25	1:20	1:16	1:12	1:09	1:06	1:03	1:01
50	1:21	1:21	1:07	1:03	1:00	0:58	0:55	0:52	0:48	0:45	0:43	0:41	0:39	0:37
60	0:57	0:57	0:46	0:43	0:40	0:38	0:36	0:34	0:33	0:31	0:30	0:29	0:28	0:27
70	0:40	0:40	0:33	0:31	0:30	0:28	0:27	0:26	0:24	0:23	0:22	0:20	0:19	0:18
80	0:30	0:30	0:26	0:24	0:23	0:21	0:20	0:19	0:18	0:17	0:16	0:16	0:14	0:13
90	0:24	0:24	0:20	0:19	0:18	0:17	0:16	0:15	0:14	0:13	0:12	0:11	0:10	0:10
100	0:19	0:19	0:16	0:15	0:14	0:13	0:12	0:11	0:10	0:10	0:09	0:09	0:08	0:08
110	0:16	0:16	0:13	0:12	0:11	0:10	0:09	0:09	0:08	0:08	0:08	0:07	0:07	0:07
120	0:13	0:13	0:10	0:09	0:09	0:08	0:08	0:08	0:07	0:07	0:07	0:06	0:06	0:06
130	0:11	0:11	0:09	0:08	0:08	0:07	0:07	0:07	0:06	0:06	0:06	0:06	0:05	0:05
140	0:09	0:09	0:07	0:07	0:07	0:06	0:06	0:06	0:06	0:05	0:05	0:05	0:05	0:05
150	0:08	0:08	0:07	0:06	0:06	0:06	0:05	0:05	0:05	0:05	0:05	0:04	0:04	0:04
160	0:07	0:07	0:06	0:06	0:05	0:05	0:05	0:05	0:05	0:04	0:04	0:04	0:04	0:04
170	0:07	0:07	0:05	0:05	0:05	0:05	0:04	0:04	0:04	0:04	0:04	0:04	0:04	0:03
180	0:06	0:06	0:05	0:05	0:05	0:04	0:04	0:04	0:04	0:04	0:04	0:03	0:03	0:03
190	0:05	0:05	0:05	0:04	0:04	0:04	0:04	0:04	0:04	0:03	0:03	0:03	0:03	0:03

NO DECOMPRESSION LIMITS AT ALTITUDE (IMPERIAL)

NO DECOMPRESSION LIMITS AT ALTITUDE (METRIC)

Altitude> Depth	0	305	610	915	1220	1525	1830	2135	2440	2745	3050	3355	3660	3965
9	4.43	4.43	3:51	3.37	3.24	3.10	2:58	2.48	2:39	2:31	2.24	2.18	2:12	2.07
12	2:24	2:24	2:03	1:52	1:44	1:37	1:30	1:25	1:21	1:17	1:13	1:10	1:07	1:04
15	1:25	1:25	1:10	1:06	1:03	1:00	0:57	0:55	0:52	0:49	0:46	0:43	0:41	0:39
18	0:59	0:59	0:49	0:45	0:42	0:40	0:38	0:36	0:34	0:32	0:31	0:30	0:29	0:28
21	0:41	0:41	0:34	0:33	0:31	0:29	0:28	0:27	0:26	0:24	0:23	0:21	0:20	0:19
24	0:32	0:32	0:27	0:26	0:24	0:22	0:21	0:20	0:19	0:18	0:17	0:16	0:15	0:14
27	0:25	0:25	0:21	0:19	0:18	0:17	0:16	0:16	0:14	0:13	0:12	0:12	0:11	0:10
30	0:20	0:20	0:17	0:16	0:15	0:13	0:12	0:12	0:11	0:10	0:10	0:09	0:09	0:08
33	0:17	0:17	0:13	0:12	0:11	0:11	0:10	0:09	0:09	0:08	0:08	0:08	0:07	0:07
36	0:14	0:14	0:11	0:10	0:09	0:09	0:08	0:08	0:07	0:07	0:07	0:06	0:06	0:06
39	0:11	0:11	0:09	0:08	0:08	0:07	0:07	0:07	0:06	0:06	0:06	0:06	0:05	0:05
42	0:09	0:09	0:08	0:07	0:07	0:07	0:06	0:06	0:06	0:05	0:05	0:05	0:05	0:05
45	0:08	0:08	0:07	0:06	0:06	0:06	0:06	0:05	0:05	0:05	0:05	0:05	0:04	0:04
48	0:07	0:07	0:06	0:06	0:06	0:05	0:05	0:05	0:05	0:04	0:04	0:04	0:04	0:04
51	0:06	0:06	0:06	0:05	0:05	0:05	0:05	0:04	0:04	0:04	0:04	0:04	0:04	0:03
54	0:06	0:06	0:05	0:05	0:05	0:04	0:04	0:04	0:04	0:04	0:04	0:03	0:03	0:03
57	0:05	0:05	0:05	0:04	0:04	0:04	0:04	0:04	0:04	0:03	0:03	0:03	0:03	0:03

INSPECTION / SERVICE RECORD

SERIAL NUMBER

DATE OF PURCHASE

PURCHASED FROM (DEALER)

BELOW TO BE FILLED IN BY AN AUTHORIZED SHERWOOD SCUBA DEALER:

DATE	INSPECTION / SERVICE PERFORMED	DEALER / TECHNICIAN

SHARING THE WISDOM 3



WARNING: Never participate in sharing or swapping of a dive computer. Doing so may result in injury or death.

The Wisdom 3 provides information based upon a diver's personal dive profile, and therefore **must not be "shared" between divers**. You should never, under any circumstances, swap your computer with another unit between dives, or share your computer with another diver underwater.

It is impossible for two divers to stay precisely together underwater, and your computer's dive **profile tracking of previous dives will be pertinent to you only**. Nitrogen loading of a second user may be significantly different and thus swapping dive computers could lead to inaccurate and potentially dangerous predictions of decompression status.

This rule applies to the use of all dive computers, but is especially important when using the Wisdom 3, due to the personal information it provides.

NOTES

Wisdom 3

DIVE COMPUTER

MANUAL