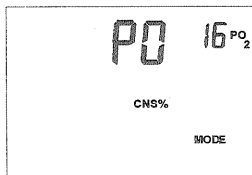


OXYGEN PARTIAL PRESSURE (PO₂) LIMIT MODE

This is where you can set an oxygen partial pressure limit.
If this set limit is exceeded during diving, audible and visual warning signals are given.
The PO₂ limit can be set between 1.2 and 1.6

To access PO₂ limit Selection Mode from FO₂ selection mode:

1. Connect NEXT+NEXT 6 times to get to the PO₂ limit Mode
2. Connect DO+DO until the desired PO₂ is displayed



The EquaNO₂x will remember last chosen PO₂, and use this for the next dive, if the user does not specify other PO₂.
The PO₂ will be reset when the unit is turned off (when desaturation calculation is done), and when restarted, it will always start with a default PO₂ value of 1.2
After a change in setting, the EquaNO₂x will not record the new setting before returning to the surface mode. Connect NEXT + NEXT to return to surface mode to record the change to the computer memory.

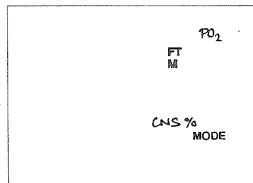
Please refer to your nitrox/EANx course training material to determine the PO₂ setting that you should use. Increasing the PO₂ from 1.2 to a higher number will increase your risk of oxygen toxicity.

UNITS SELECTION MODE

In the Units Selection Mode you select the combination of imperial or metric measure to be used to indicate depth.

To access Units Selection Mode from Surface Mode:

1. Connect NEXT+NEXT 7 times to get to the Units Mode
2. Connect DO+DO until the measurement combination you want to use is displayed



Depth combination options: feet/Meters

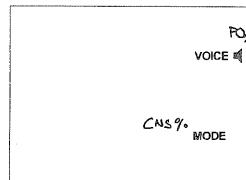
To exit Unit Selection Mode connect DO/NEXT+NEXT+DO

AUDIBLE BEEPS ON/OFF SELECTION MODE

This is where the warning beeps are turned on or off.

To access Beeps on/off Selection Mode from Surface Mode:

1. Connect NEXT+NEXT 8 times to get to the Beeps on/off Mode
2. Connect DO+DO to turn the beeps on (the icon will remain steady)
3. Connect DO+DO a second time to turn the beeps off (the icon will flash on and off)



The beeps can also be turned on and off with the Tap Switch as discussed earlier.

To exit Audible Beeps on/off Mode connect DO/NEXT+NEXT+DO

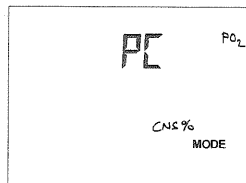
The EquaNO₂x will also return automatically to the Surface Mode when the computer has remained inactive for a few seconds.

PC INTERFACE MODE

The PC MODE allows you to download the information from the EquaNO₂x to a PC.

To access PC Interface Mode from Surface Mode:

1. Connect NEXT+NEXT 9 times to get to the PC Mode
2. To download the information set the PC interface cable in place on top of the EquaNO₂x so that the interfaces optical reader faces the LCD.
Prepare your PC to accept data, connect DO+DO on the EquaNO₂x
The data will then be transferred in 5-10 seconds.



To exit the PC Interface Mode connect DO/NEXT+NEXT+DO

The EquaNO₂x will return automatically to the Surface Mode when it has remained inactive for a few seconds.

ALTITUDE SELECTION MODE

In the Altitude Selection Mode you must manually enter the altitude range at which you will be diving.

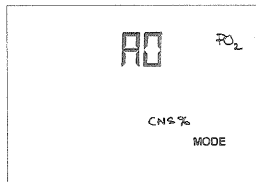
To access Altitude Selection Mode from Surface Mode:

1. Connect NEXT+NEXT 10 times to get to the Altitude Mode
2. Connect DO+DO to move through the altitude groups. To select an altitude group, stop at the altitude group at which you will be diving.

Before diving the correct altitude group at which you will be diving must be set in the Altitude Selection Mode. The altitude groups are as follows:

Level	Table Correction % (no stop times)
A0: 0-984 feet	0
A1: 984 feet - 2,952 feet	10
A2: 2,952 feet - 4,920 feet	15
A3: 4,920 feet - 7,872 feet	20
A4: 7,872 feet +	25

The EquaNO²x is designed to operate up to 11,480 feet.



! WARNING

NOT SETTING THE CORRECT ALTITUDE GROUP BEFORE DIVING GREATLY INCREASES THE RISK OF DECOMPRESSION SICKNESS WHICH COULD RESULT IN SERIOUS INJURY OR DEATH. THE EquaNO²x DOES NOT HAVE AUTOMATIC ALTITUDE ADJUSTMENT, IT MUST BE MADE BY THE USER !

! CAUTION

When the diver is at altitude for less than 24 hours, only the HARD dive conditions mode should be used to compensate for the extra nitrogen stored in body tissues. After an adaptation period of 24 hours at altitude the NORMAL dive conditions mode can be used, but it is recommended that the HARD continue to be used as an extra margin of safety.

VII. EquaNO²x COMPUTER UNDERWATER - DIVE FUNCTIONS

Underwater, the following information is shown:

- Dive time (0-199 minutes)
- Depth
- Current PO₂ reading
- No Stop time (time remaining before a decompression stop is required)
- CNS percentage reading
- Total ascent time
- Battery low

The following LCD segment warnings are shown:

PO₂ violation

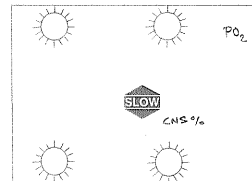
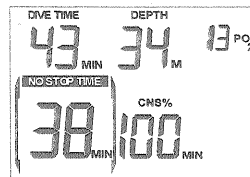
Current depth reading blinking, (with LCD light blinking) for PO₂ violation

CNS% warning

Current depth reading blinking, (with LCD lights blinking) for CNS% violation

Depth limit violation

The EquaNO²x maximum operation depth is 213 feet. If this is exceeded, the depth display will blink. NOTE that if this happens, the computer will not go into error state, but will continuously assume a depth of 213 feet, until the diver ascends back to shallower than 213 feet of depth.



Ascent rate warning - the word SLOW with two arrows will appear on the screen and the LCD lights will flash until you have slowed to within the ascent rate (see ASCENT RATE below for the parameters) .

ASCENT RATE

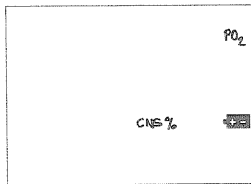
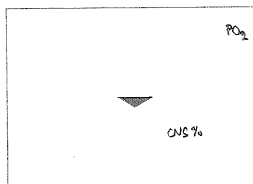
The computer ascent rate is as follows: 213 feet to 66 feet: 66 feet per minute
66 feet to surface: 33 feet per minute

If the ascent rate has been exceeded the computer will give the following warning:

Visual : word SLOW with two arrows will appear on the screen and the LCD lights will flash until you have slowed to within the ascent rate. LCD lights will also be flashing

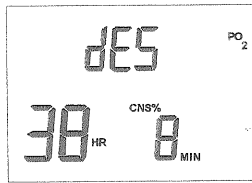
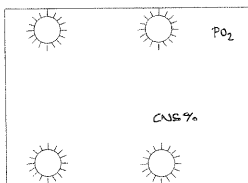
Audible: if the ascent rate is exceeded a continuous beep will be given until the diver has slowed down to within the ascent rate (Audible beeps Mode should be on).

Move to Stop Depth - an arrow pointing down will flash on the screen (see section on Decompression Diving).



Battery low caution - the battery icon will be shown on the LCD screen and the LCD lights will not work.

Decompression dive - if you have entered into a decompression situation, the EquaNO²x will flash the LCD lights 3 times.



Desaturation time indicator

The desaturation time indicator gives the exact time of tissue desaturation, calculated to 1/2 foot of water (= +15 mbar). Without this added pressure, the model would give unnecessary long desaturation times due to longest tissue groups half time 480 minutes. This also gives enough safety margin to count for possible weather changes.

!WARNING

There can never be a flying after diving rule that is guaranteed to prevent decompression sickness completely. Rather there can be guidelines that represent 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 decompression sickness.

Diver's Alert Network (DAN) recommends that in no case should flying take place within at least 12 hours after diving. After multiple dives and/or several days of diving the surface interval before flying should be a minimum of 24 hours.

DECOMPRESSION DIVING

!WARNING

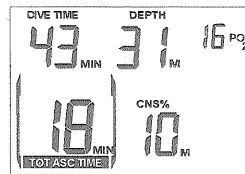
Dacor does not advocate diving outside the recommended sport diving limits. Diving outside the recommended sport diving limits requires special training and equipment and has certain inherent risks. No attempt is made in this manual to explain the many considerations essential to safe diving outside the recommended sport diving limits, or the many risks. The information in this section is provided only to give you certain limits of the EquaNO²x computer as well as what information will be supplied should you find yourself in an inadvertent decompression situation.

Limitations of the EquaNO²x:

The maximum depth of the EquaNO²x is 213 feet. If the computer is taken deeper than this, the LCD will continue to show 213 feet with the depth reading blinking, and all calculations will assume a depth of 213 feet.

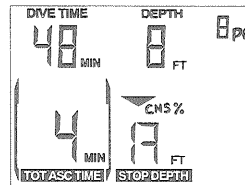
Decompression dive warning:

Visual - if you enter into a decompression dive the LCD lights will flash 3 times. If you continue diving after the decompression dive warning, the LCD display will show the following:

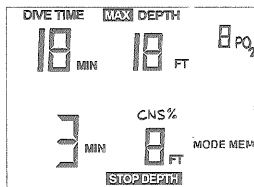


In this case, the EquaNO²x is telling you that a decompression stop is required at 10 meters and that the total ascent time, including the decompression stop is 18 minutes.

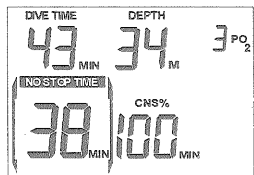
If you ascend above the stop depth ceiling an arrow pointing down will show on the screen until you descend to the proper depth. See diagram below.



If you do not do the decompression stop, the EquaNO²x will continue to calculate the ascent, however, the ignored decompression stop will be recorded in Memory Mode under the dive profile.



When the decompression stop is completed, the stop depth will change to the next stop depth or return to a no decompression screen as shown below:



During decompression situation, the CNS% reading will give way to decompression stop depth reading. The CNS% is calculated constantly, and the display will return after the decompression situation is over, or at the surface.

VIII. CARE & MAINTENANCE

EquaNO²x GENERAL CARE & MAINTENANCE

1. After use, rinse the EquaNO²x thoroughly with fresh water and let it dry in a cool place
2. For hard to remove dirt, use only a mild detergent and soft brush.
3. Never use solvents or compressed air to clean or dry the EquaNO²x.
4. Do not leave the EquaNO²x where it is exposed to direct sunlight or other sources of extreme heat
5. Always store your EquaNO²x in the protective pouch in which it comes and prevent it from shock and dropping. Do not pack on the bottom of a dive bag under other equipment
6. Do not open the EquaNO²x case for other than battery change purpose
7. If the EquaNO²x is put in a pressure chamber, it should always be underwater. The unit should never be pressurized in a chamber without water as it may damage the unit.
8. NEVER CLEAN THE UNIT WITH ALCOHOL OR OTHER SOLVENT AS THIS WILL DAMAGE THE UNIT IRREVOCABLY !

For servicing other than battery replacement, contact:

Dacor Corporation
P.O. Box 8900
Attn: Product manager
161 Northfield Road
Northfield, Illinois 60093
USA
Telephone: 847 446-9555
Telefax: 847 446-7547

! WARNING
ALCOHOL AND OTHER SOLVENTS MAY PERMANENTLY DAMAGE THE LCD LENS IF APPLIED TO ITS SURFACE. NEVER CLEAN THE UNIT WITH ANY SOLVENT !



BATTERY INFORMATION AND REPLACEMENT

EquaNO²x COMPUTER constantly monitors the battery to draw out its full energy potential, thus increasing the life of the battery.

Battery self test procedure:

When the computer is turned on and after the self test procedure, the computer will perform a battery test. During this test the LCD will display the number 9. If the battery is sufficiently charged the LCD will show all segments and then begin working.

If the battery is not giving full power the computer will run a function that will try to revive the battery. This will take max 3 minutes and during this time the LCD display will count down from 9 to 0, if needed. If the battery revival is successful, the LCD screen will show all segments again then begin working. If it is not successful the computer will turn off. The battery should then be replaced.

A low battery when the computer is in use is indicated by:

A battery icon will be displayed in display.

After the low battery indication is given:

After the low battery indication is given, the computer will continue to operate, without LCD lights, for approximately 50 hours before it is inoperable.

Dive memory retention:

If the battery goes dead while changing the battery, the computer will retain all the information that is in the Memory Mode. The information from the last dive that is shown in the Surface Mode, will be lost in the Surface Mode but can be obtained from the Memory Mode.

Battery specifications:

Battery type: SAFT LS 14250 inorganic lithium battery, 3.5 volts, size 1/2 AA
Battery life: 300 hours of diving, approximately
Remaining time once low batt signaled: 50 hours, approximately (without voice & LCD light functions)
Shelf life: 8 years, approximately

Changing the battery:

The EquaNO²x battery can be replaced by the user, although we recommend the user to take his/her unit to a qualified dive shop to battery exchange.

For battery exchange, do as follows:

Opening the back cover

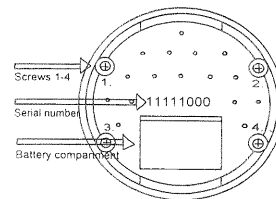
1. Remove the unit from console, or remove the wrist strap.
2. Unscrew the four screws to loosen the bottom plate.
3. Separate the bottom part from the computer main body
4. Locate the battery chamber on the computer main body, and lift up the battery compartment lid (use not tools).
5. Replace the battery, being sure to match the positive end of the battery with the positive side of the compartment, indicated at the bottom of the battery chamber.
6. Inserting the new battery avoid touching the battery contacts with your fingers

Reassembly of the unit

1. Clean the O-ring and the battery hamber door first to make sure that there is no debris or hair on the O-ring or sealing surface
2. Place the O-ring on the battery chamber door (lid). A small amount of silicon lubricant
3. may be used on the O-ring to help the O-ring to slide into the battery chamber.
4. Slide the battery chamber door to the battery chamber with one side first, and then press the door into its place with even pressure. Put your forefinger through the square opening in the bottom part, and use your finger to maintain pressure
5. as you slide the bottom plate down your finger and into place, lining up the ridges on the inside on the bottom plate with the grooves on the battery chamber door.
7. The computer main body and the bottom plate have guiding rails, to allow the installation in only the correct position. Do not force them together in incorrect position.
8. Keep the unit pressed together while screwing the four screws.
9. Reinstall strap or console

IMPORTANT NOTICE

Failure to follow the above instructions and/or use authentic EquaNO²x O-rings will invalidate the warranty of this product.



X. TECHNICAL SPECIFICATIONS

Electronics:	printed circuit board
Microprocessor:	8 bit CMOS processor
Production method:	SMD COB
Depth gauge:	
Resolution:	1 foot
Depth range:	213 feet
Temperature range:	4° - 122°F
Altitude range:	0 - 11,480 feet
Ascent rate:	216 feet to 66 feet: 66 feet per minute 66 feet to surface: 33 feet per minute
Battery:	
Power source:	1 lithium battery SAFT LS3 or LS 14250
Size:	1/2 AA
Volts:	3.5
Life:	Approximately 3000 hours of diving without use of light with use of light approximately 15% less
Housing Material:	Polycarbonate
Other materials:	Glassfiber armored PA12
Dive table models:	
Normal & Hard	Modified Bühlmann
EAN/nitrox	EAD calculation, EAN calculations by Prof. Bill Hamilton, Hamilton Research Inc
EAN/nitrox safety precautions:	Adjustable FO ₂ and PO ₂ Current PO ₂ displayed during diving CNS clock OTU monitor
Memory capacity:	10 dives for 10 hours whichever is met first
Warranty	1 year from purchase of unit

FOR THIS WARRANTY TO BE VALID, A COPY OF THE PURCHASE RECEIPT MUST BE SIGNED, DATED AND RETURNED TO DACOR ALONG WITH THE UNIT INTENDED FOR WARRANTY COVERIDGE.

Thank you for reading this manual completely. Should you have any questions regarding the EquaNO₂x diving computer, please phone us at 1 800 446 9555 and ask for the Product Manager.

