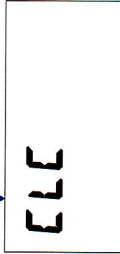


Clock Mode Programming

If the Clock Mode is not enabled via the Analyst Personal Computer Interface the following screens will not be visible nor accessible by Touch Programming. When the Clock Mode is enabled, the Clock Menu Screen will be the first screen that is displayed when in Touch Programming. Programming the Clock Time and Alarm settings follows the same sequence as Touch Programming.

Clock
Main Menu Selection



Bridge Contacts 1 & 2 with wetted fingers to access Clock Mode.

Clock Alarm Off



Bridge Contacts 1 & 2 with wetted fingers to toggle Clock Alarm on/off.

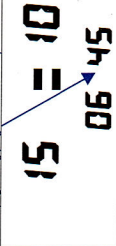
Clock Alarm On



Short Contacts 1 & 2 with a Coin or other highly conductive metal object to access Clock time setting screen.

Short Contacts 1 & 2 with a Coin or other highly conductive metal object to access Clock Alarm setting screen.

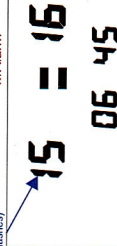
Short Contacts 2 & 3 with Coin to increment digit value. (Digit being programmed flashes)



Setting Alarm Time

Short Contacts 1 & 2 with a Coin selects the next programming option.

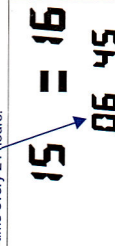
Short Contacts 2 & 3 with Coin to increment digit value. (Digit being programmed flashes)



Setting Time wo/Alarm

Bridge Contacts 1 & 2 with wetted fingers to select next digit.

Bridge Contacts 1 & 2 with wetted fingers to select next digit.



Setting Time w/Alarm

Clock Mode and Alarm times are displayed using a 24 hour Clock. 15:16 = 3:16 pm.

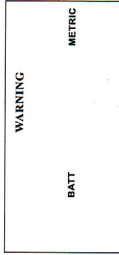
Clock Mode must be exited before commencing a Dive.

TYPES OF AUDIBLE WARNINGS

Most warnings are issued for five seconds and repeated every two minutes

- Single Beep
 - Depth Alarm, two minutes of NDC Time Remaining,
 - Entering Decompression,
 - Oxygen Toxicity (CNS, OTU, PO2),
 - Sensor Malfunction.
- Double Beep
 - Low to High Sweep
 - Ascend Rate (Continuous),
 - Depth Shallower than Decompression Ceiling (Continuous).

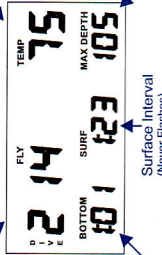
Any time the "WARNING" legend is on and/or flashing, some parameter is out of bounds. Look for the offending parameter that is flashing on and off every second.



When 'METRIC' legend is on, the unit is computing in Metric variables and displaying data in Metric units.

Any time the "BATT" legend is on, battery voltage is below 2.1 volts and batteries should be changed. When "BATT" legend is flashing, battery voltage is below 1.8 volts and batteries MUST be changed.

Dive Number & Time to Fly (Never Flash)



Temperature (Flashes if less than 20 or greater than 99 degrees F, or sensor is malfunctioning)

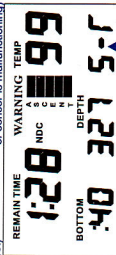
Max Depth (Never Flashes)

Bottom Time (Never Flashes)

Surface Interval (Never Flashes)

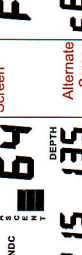
Ascent Rate Bar Graph (Flashes when ascending too fast based on Ascent rate alarm setting via Analysis)

Temperature (Flashes if less than 20 or greater than 99 degrees F, or sensor is malfunctioning)



Depth (Flashes when 327 feet is exceeded or sensor is malfunctioning)

PO2 (Flashes when user set maximum PO2 value is exceeded.)



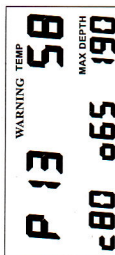
CNS (Flashes when user set maximum CNS value is exceeded.)

Depth (Flashes when user set maximum depth or 327 feet is exceeded or sensor is malfunctioning.)

Sensor Failure (Sensor malfunction, 'T' is Temp Sensor, 'd' is Depth Sensor)

Ceiling (Flashes if depth is less than ceiling.)

Deco Stop Times (Alternates between Total Deco time & time at the current Stop)



Depth (Flashes when depth is less than ceiling.)

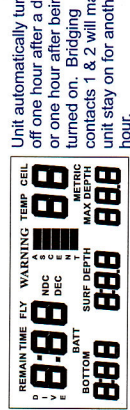
OTU (Flashes when user set maximum value is exceeded.)



DISPLAY SCREENS
Cochran Commander
One Blend Nitrox
© 2001 Cochran Consulting, Inc.
Card CmIdrFOZ - 15June01
Part Number 41009112

Diagnostic Mode (Unit Turning on)

Turn on by touching closest two Contacts on the side with wetted finger or coin.



Unit automatically turns off one hour after a dive or one hour after being turned on. Bridging contacts 1 & 2 will make unit stay on for another hour.

Tap Unit at any time to enable the Alternate Screen and Fiber Optic back light.

Surface Interval (No Nitrogen)

Barometric Altitude (2500 feet per bar, No bar = 0 to 2500)



Nitrox O2% (Blend #1 Set Point)

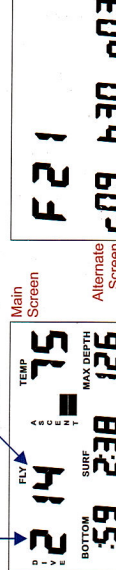
CNS Oxygen Toxicity in %

Battery Voltage

OTU Oxygen Toxicity in %

Surface Interval (With Nitrogen)

Dive of "Day" (Repetitive Dive Number)



Time to Fly (hours before safely flying)

Bottom Time (Of the last dive) (Amount of time since the last dive)

Surface Interval (Of the last dive) (Amount of time since the last dive)

Max Depth (Of the last dive)

Temperature (Of the last dive)

Water Temperature (Of the last dive)

Decompression (Of the last dive)

Current PO2 (in kPA)

Depth (Depth you are currently at)

Deco Ceiling (Don't go above this Depth for optimum Decompression)

Decompression Mode (Alternates between Total Deco time & time at the current Stop)



Nitrox O2% (Current Blend set point)

CNS Oxygen Toxicity in %

Max Depth (Of current dive)

Temperature (Of current dive)

Water Temperature (Of current dive)

Decompression (Of current dive)

Current PO2 (in kPA)

Depth (Depth you are currently at)

Deco Ceiling (Don't go above this Depth for optimum Decompression)

Decompression Mode (Alternates between Total Deco time & time at the current Stop)

Deco Dive (Water temperature)



Bottom Time (Of the last dive) (Amount of time since the last dive)

Surface Interval (Of the last dive) (Amount of time since the last dive)

Max Depth (Of the last dive)

Temperature (Of the last dive)

Water Temperature (Of the last dive)

Decompression (Of the last dive)

Current PO2 (in kPA)

Depth (Depth you are currently at)

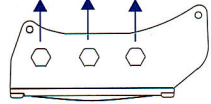
Deco Ceiling (Don't go above this Depth for optimum Decompression)

Decompression Mode (Alternates between Total Deco time & time at the current Stop)

Deco Dive (Water temperature)

Touch Programming

- To activate touch programming, the unit needs to be in a Normal Surface Interval.
- Shorting contacts 1 & 2 with a coin changes the top level menu selection.
- Shorting contacts 1 & 2 with wet finger takes you into that menu selection.
- The digit that is flashing is the one that is going to be incremented.
- Shorting contacts 2 & 3 with a wet finger or coin increments the digit that is flashing.
- Touch programming is automatically terminated if a digit flash.
- Touch Programming is automatically terminated after 5 minutes of no activity.
- Always scroll back through data to ensure it was entered and stored as desired.
- CLOCK comes from the factory disabled. If enabled, "CLC" will be the first screen seen in Touch Programming. See back page for details.



- Shorting contacts 1 & 2 with a wet finger makes the next digit flash.
- Touch Programming is automatically terminated after 5 minutes of no activity.
- Always scroll back through data to ensure it was entered and stored as desired.
- CLOCK comes from the factory disabled. If enabled, "CLC" will be the first screen seen in Touch Programming. See back page for details.

PreDive Prediction
Main Menu Selection

REMAIN TIME: 1:37 NDC
DEPTH: 50
POS: 50

Predict Screen

Short Contacts 1 & 2 with a Coin selects the next programming option.

Information Screen
Main Menu Selection

INF F1
09 630 003

Information Screen

Short Contacts 1 & 2 with a Coin selects the next programming option.

Depth Alarm
Main Menu Selection

DEP AL 124
DEP AL 122

Depth Alarm

Short Contacts 1 & 2 with a Coin selects the next programming option.

Conservatism
Main Menu Selection

CON 00
CON 15

Conservatism

Short Contacts 1 & 2 with a Coin selects the next programming option.

Normal Dive

Use only fresh 1.5 volt 'N' cell batteries (Alkaline recommended).

- Rinse the unit with clean fresh water after each dive.
- Do not put the Commander away while wet.
- Do not subject unit to compressed air.
- Do not remove the lens from the unit.
- Do not use a screwdriver to remove the battery cap.

Set Blend #1
Main Menu Selection

EAN 1
2 10
320

Setting Blend #1 O2%

Short Contacts 1 & 2 with a Coin selects the next programming option.

Tactile Dwell Time
Main Menu Selection

FAC DL 10
FAC DL 15

Setting Tactile

Short Contacts 1 & 2 with a Coin selects the next programming option.

Dive Logbook
Main Menu Selection

LOG

Bridge Contacts 1 & 2 with wetted fingers to access Logbook.

Short Contacts 1 & 2, with a Coin
selects the next programming option.

Menu Screen
W/Dive #

LOG 00 235
14 =26
18 02 01

Menu Screen

Short Contacts 1 & 2 with a Coin selects the next programming option.

NDC Time Remain
(Amount of NDC time)

:10 NDC
SURF 24
TEMP 69
MAX DEPTH 132

NDC Time Remain

Short Contacts 1 & 2 with a Coin selects the next programming option.

DEC Time Remain
(Max amount of Deco time)

REMAIN TIME: 24 DEC
SURF 126
TEMP 20
MAX DEPTH 128

DEC Time Remain

Short Contacts 1 & 2 with a Coin exits programming.

POST DIVE INTERVAL

The first ten minutes after a dive the Commander will be in the Post Dive Interval Mode. This is indicated by the 'SURF' legend flashing once per second. If a dive is initiated while the Commander is in this mode it will be considered a continuation of the previous dive.

Dive of "Day"
(Base on Day Dive Number)

FLY 16
SURF 140
TEMP 69
MAX DEPTH 101
F28
18 630 009

Dive of "Day"

Short Contacts 1 & 2 with a Coin selects the next programming option.

Ascent Rate Bar Graph in Feet Per Minute (fpm)

Greater than 60 Feet Per Minute, WARNING and top bar of graph will flash. Current factory settings for the Ascent Rate Bar Graph are: Variable-by-depth, Proportional, with a Sensitivity of 3 (Nominal). Subject to change without notice.

Variable-by-depth and Proportional Selected
Depth Greater than 60 ft

A	50 fpm or more
S	40 To 49 fpm
C	25 To 24 fpm
E	15 To 19 fpm
N	10 To 14 fpm
T	5 To 9 fpm

Fixed at 60 fpm

Variable-by-depth and Proportional Selected
Depth less than 30 ft

A	50 fpm or more
S	40 To 49 fpm
C	25 To 24 fpm
E	15 To 19 fpm
N	10 To 14 fpm
T	5 To 9 fpm

Bottom Time
(Of the last dive)

Bottom Time: 39
Surface Interval: 140
Max Depth: 101

Bottom Time

Short Contacts 1 & 2 with a Coin selects the next programming option.

Bottom Time
(Of the last dive)

Bottom Time: 39
Surface Interval: 140
Max Depth: 101

Bottom Time

Short Contacts 1 & 2 with a Coin selects the next programming option.