

OxyCheq

HS Explorer Trimix Dive Computer



Model M



Model O

NOW ALSO AVAILABLE WITH DIRECT O2 CELL (PPO2) MONITORING AND COMPUTATION

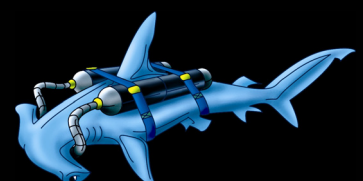
- The First and only dive computer with full RGBM
- 10 in-water selectable gas mixes with almost any combination of N-He-O2
- Open and Closed Circuit modes
- Constant PO2 mode for 5 mixes
- Maximum depth 180 meters
- Battery user replaceable
- Altitude above sea level till 11500 feet or 0.65 bar
- Explorer simulator software
- PC Interface cable
- LED Display backlight – User activated
- Automatic gas switching
- Manual gas switching
- Changing PPO2 Set points during the dive
- 12 months warranty

Distributor Benelux: Hammerhead Technical Diving

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Specifications

1. Design

1. Physical

1. Overall Size: 3.25"W x 2.25."H x 1.0" T.
2. Case Color: Black, Blue, Orange, Green, Yellow or Magenta
3. Mounting: Wrist Strap(s) with buckle.
4. Display: Liquid Crystal
5. Display Back Light: LED.
6. Display Size: 2.50" x 1.50"
7. Temperature Range: -0°C to +40°C.
8. Operational Pressure Rating: 280 PSI (20 bar) (600 ft, 180 m)
9. Breathing Mix's: 10, Air, NITROX, Mixed Gas, Oxygen, Selectable during dive.
10. Constant PPO₂ Mix's: 5 mixes plus 5 open circuit mixes, 10 total.

2. Electrical

1. Primary Battery - 3.6 volts, lithium, field replaceable.
2. Temperature Sensor - -20°C to +50°C.
3. Data Storage - 256kb EEPROM.
4. Time, Depth, Temperature, Mix Number, Open Circuit/Closed Circuit Mode recorded at 15 second intervals.
5. LED Display Back Light - User activated by button push.
6. Serial Interface (RS-232) compatible.

2. Decompression Model (Modified Bühlmann, ZH-16)

1. Calculations

1. Formulae
 1. The calculation formula are based on the work of Dr. Buhlmann with RGBM folding by Dr. Bruce Wienke.
 2. Future inclusion of Dr. Wienke's RGBM.
2. Simple models use symmetrical tissue loading/unloading rates (L=U).
3. Complex models use asymmetrical tissue loading/unloading rates (L>U).

2. Altitude Factors

1. Altitude pressures

Reference Table 2.2.1 for the pressure reduction values for diving at altitude.

Table 2.2.1 Altitude Pressures

Altitude above sea level (thousands of feet)	0 - 2.3	2.3 - 4.9	4.9 - 8.2	8.2 - 11.5
Pressure (bar)	1 - 0.93	0.93 - 0.84	0.84 - 0.74	0.74 - 0.65
Surface pressure at end of decompression	0.95	0.86	0.76	0.67

3. Average Depth

1. Depth Averaging (dX/dT) computed to first decompression stop.

4. Breathing Gas Mixes and dive protocols:

1. Air: Air, Multi-dive, Multi-day
2. NITROX: 21% to 99% NITROX, Multi-dive, Multi-day
3. Helium: Helium/Oxygen (95%/5% Max He/O₂ ratio) , Multi-dive, Multi-day
4. Multi-gas: Nitrogen/Helium/Oxygen (ref 2.3 for max ratio), Multi-dive, Multi-day
5. Oxygen: 5% to 100% dependant on usage depth.
6. PPO₂ Mix 0, initiates constant PPO₂ operation. PPO₂ range 0.4 to 1.8.
7. Calculation Formula Range: 0 - 9 Calculation Formula is diver selectable prior to the dive. Adjustments to the decompression algorithm compensate for factors which increase the risk of decompression sickness. Some of the factors are workload, water temperature, physical condition, age, weight, etc. The conservation factor is recommended by the software interface program after completing the diver profile.

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