

COMPUTER

The Shearwater Petrel is the computer display on the Prism 2 and was chosen for this application as it is one of the most advanced mixed gas CCR computers available today. The Petrel is designed to control the Prism 2 setpoint and uses a basic decompression algorithm known as Buhlmann ZHL-16C which has been modified by the use of Gradient Factors.



DIVE MODE			
DEPTH	TIME	STOP	TIME
220	22	130	1
1.23	1.25	1.24	
O ₂ /HE		NDL	TTS
CC	10/50	0	56

DIVE MODE HIGH PPO ₂			
DEPTH	TIME	STOP	TIME
220	22	130	1
High PPO ₂	1.68	1.69	1.69
O ₂ /HE		NDL	TTS
CC	10/50	0	56

Open Circuit / Closed Circuit w/ Fixed PPO₂ or External PPO₂

2-Button Push OC Bailout

Air, Nitrox, Trimix and Heliox

Gradient Factors Conservatism

User Entered GF

Easy to Read

Simple to Use

Adaptive Menus

Large OLED Display

Automatic Setpoint Switching

Ascent Rate Display

Battery Warning

Battery Voltage

Metric with 1 Decimal Place and Imperial

CNS Tracking

Automatic Backlight

HEADS-UP DISPLAY (HUD)

The Primary Display (HUD) consists of 3 bicolor (red/green) LEDs mounted on either the right or left side of the DSV/BOV mouthpiece just below eye level. Each LED provides a status indicator for its corresponding O₂ sensor by using a "Smithers Code" flashing the status on a cycling 5-second loop during the dive.



OUR HISTORY

Bob Hollis had his first rebreather experiences in the mid 60's using Draeger units to allow him to get close to Sea Otters and other marine life in Monterey Bay. In 1970 he made some of the first dives on the Electrolung rebreather using Heliox down to 300 feet in Honduras and Bonaire, filming ship wrecks and deep reefs. In 1990, Bob developed the "Phibian" rebreather, which at the time was the only commercially available unit.

In 2000, under two separate contracts with the United States Naval Surface Warfare Command, Hollis developed and delivered a unit called the "ATUBA" (Advanced Tactical Underwater Breathing Apparatus).

HOLLIS REBREATHING DEALER SUPPORT COMMITMENT

As a consumer, you will receive a greater level of support from a Hollis Rebreather Dealer. Not because a non-Rebreather dealer doesn't care about support. Instead, the Hollis Rebreather Dealer has a greater level of commitment to the complete product line.

A Hollis Rebreather Dealer has perfected their diving skills and is at their peak of instruction. They will provide access to Rebreather training, service, consumables, upgrades and travel. The view from a Hollis rebreather into the underwater realm is like a view from no other place on earth. Hollis Gear promises to deliver an experience like no other.

The Hollis Prism 2 is certified to EN 14143:2013 and available worldwide through supporting Hollis Rebreather Dealers.

For a complete list, please visit our website or scan this QR Code:



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HOLLISREBREATHERS.COM

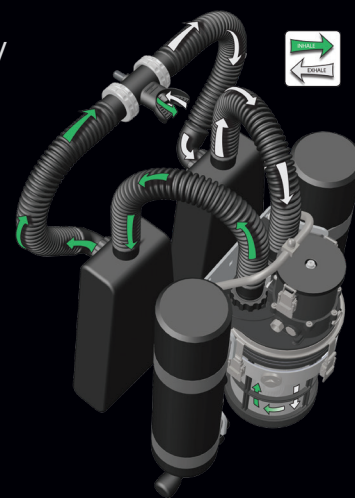




PRISM 2

TECHNICALLY FOCUSED

The PRISM 2 is an electronically or manually controlled, constant PO₂, modular, closed circuit diving system. CE approved to EN 14143:2013



BREATHING LOOP

Its breathing loop which is a keyed one-way assembly consists of a closable mouthpiece assembly with mushroom check valves on either side, which ensure uni-directional flow.

SCRUBBER DESIGN

The Prism 2 utilizes a user packed, radial 5.5lb CO₂ scrubber, which features the best possible duration, insulation and work of breathing on the rebreather. The scrubber canister is mounted vertically on the backplate and between twin supply cylinders (one each, oxygen and diluent).

The clear scrubber bucket is molded from Engineered Thermoplastic. This Hollis exclusive design ensures the CO₂ scrubber is installed, packed and provides a visual for positive loop integrity.

COUNTER LUNGS

Prism 2 now includes the option of front mounted or backmounted counterlungs. Combined with the rear mounted radial scrubber, the Prism 2 provides easy breathing with low resistive effort and low hydrostatic loading.

These counter lungs are fitted with both automatic and manual gas addition systems and a variable volume control valve (only on FMCL version) that is used upon ascent to vent excess expanding gas volume or to purge the loop. Diluent addition is automatically achieved as hydrostatic pressure increases and the counter lung collapses against the valve actuator.

Prism 2 also features an industry low Work of Breathing of 0.94 J/L - Tested at 100M by ANSTI.

STATUS CHECK

With the electronics switched on, the secondary also provides a status check for the battery and displays the set point selected for the dive along with other critical information. The electronics vote between the three proprietary galvanic sensors and control the operation of a low wattage solenoid valve on the oxygen supply.

ELECTRONICS

Prism 2 now supports the latest in oxygen sensor technology featuring:

- Warn for use of sensor past expiry date
- Advance warning for sensor ordering/ replacement
- Check proper sensor model/type
- Provide date of last calibration

Front mounted counter lungs	Industry low work of breathing and hydrostatic loading
Back mounted counterlungs	Improved streamlining with less drag and better horizontal trim. Also features a new upstream valve design.
Unit weight	Fully charged, in standard configuration - approx. 47lbs
3.5 Liter split counter lungs	Inhale and exhale counter lungs for high work loads
Counter lung drains	Easy to remove water during a dive
All gas lines external to the breathing loop	Prevents leaks from affecting the PPO ₂
Automatic diluent addition valve	Adds diluent during descent or when the loop volume is Low
Manual diluent addition valve	Adds on board or off board diluent for loop flushing
Gases	Air, Trimix, and Heliox
Manual oxygen addition valve	Manually control oxygen PPO ₂
Bail out valve option	High-performance open circuit bailout
Integral Harness and BC or Backplate Standard	Ready to dive out of the box
Full range of wings/harness	Ultimate customization
Accepts 13, 19, or 30 cu.ft. cylinders	Flexible gas management
Eye-level LED primary display	Easy to monitor system status
Displays PPO ₂ for each oxygen sensor	Used to control PPO ₂ manually, assure electronics system is nominal
External power switch	Easy to power on
Push-Button O ₂ calibration	Easy to calibrate
Large OLED secondary display	Easy to read, even for your buddy
PPO ₂ monitoring of three sensors	Continuous display of each sensor's PPO ₂ , MV reading easy to access
Air, Nitrox, Trimix and Heliox	Ready for any dive plan
Closed circuit & open circuit, 5 gases	Supports diluent switching & multi-gas mix dive plans
2-Button push OC bailout	If you have to leave the loop, quickly switches to bailout support
CNS tracking	% CNS based on real time oxygen exposure
Software update via web	Available
Bluetooth	Dive log download and software updates



Hollis Prism 2 training courses are offered through all major training agencies.