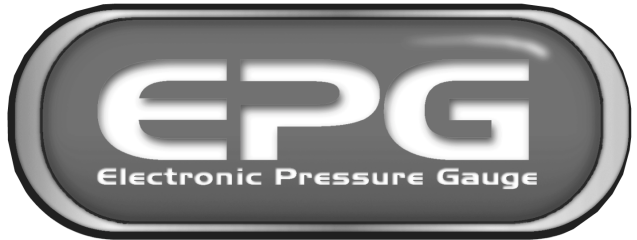


AQUA  LUNG®



Owner's Manual

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IMPORTANT NOTE: The EPG gives true pressure and air time readings. Air time is the amount of time until the cylinder pressure reaches 0 psi/bar. Before using the EPG for the first time, set the low pressure alarm and air time alarm to a comfortable margin. The default settings for these alarms are 500 psi (34.5 bar) and 10 minutes, respectively. See page 5 for instructions on setting the alarms.

Introduction

Congratulations on the purchase of your Aqua Lung EPG[®] electronic pressure gauge. The EPG is the world's first stand-alone electronic pressure gauge that gives a digital read out of cylinder pressure, temperature, remaining air time, and time of day. It also has a remaining air time bar graph for quick reference. The EPG uses an electroluminescent (EL) backlight called Digilite[™] and the AutoEL[™] technology. Unlike other backlights, the Digilite[™] lights up the numbers and characters, not the background. The AutoEL[™] feature automatically activates the backlight when any of the warnings are sounded, a great feature when diving at night or in low light conditions. The AutoEL[™] feature can be turned on or off. The EPG has audible alarms that you can set, including a low pressure alarm and a remaining air time alarm.

The EPG is a perfect complement to non air-integrated dive computers, like the ones found in the Aqua Lung Pivot series. Since the EPG[®] is the same size as the Aqua Lung analog pressure gauge, it will fit into the Aqua Lung Pivot[®] console boot. It will also fit into many other consoles from other manufacturers.

As with all diving equipment, it is crucial to understand the features and functions of the EPG[®]. Before using the EPG[®], it is essential to read this manual in its entirety. Contained within this easy to read manual are illustrations to aid you in the complete understanding of the EPG[®]. Section 1 covers the operating instructions and explains all the modes and displays. Section 2 offers advice on care and maintenance, and instructions on changing the battery. Lastly, Section 3 contains the technical specifications.

Operation

Activation.

The EPG® is activated by pressing either button. The EPG will not activate any other way. The gauge can be activated above or below the water.

Operational Modes

The EPG has three operational modes: Sleep Mode, Standby Mode, and Active Mode. The EPG enters Standby Mode immediately after activation, or after breathing is suspended for 5 minutes. The EPG enters Active Mode when it detects a pressure drop (breathing starts) of more than 1.6 bar/min (23 psi/min). If the cylinder pressure is greater than 3 bar (45 psi) and the unit has been in Standby Mode for 30 minutes, it goes into Sleep Mode. If cylinder pressure is less than 3 bar, (45 psi), the EPG enters sleep mode after 5 minutes. Each mode is discussed in detail in the sections below.

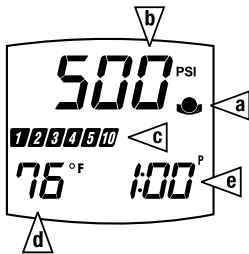


Figure 1
Standby Mode

Standby Mode

In Standby Mode (figure 1), the EPG will display the Standby Mode icon (a), cylinder pressure (b), air time meter (c), temperature (d), and time of day (e). You can toggle air time and time of day by pressing the right button. Pressing both buttons will activate the backlight. While the EPG® is in Standby Mode, you may access the menu system.

Active Mode

The Active Mode (figures 2 & 3) is denoted by the animated bubbles coming from the regulator icon (a). In Active Mode, the EPG displays the current tank pressure (b), air time meter (c), temperature (d), and time of day (e). During Active Mode, pressing the left button activates the backlight. Pressing the right button toggles the time of day with remaining air time (f).



Figure 2
Active Mode with Time of Day

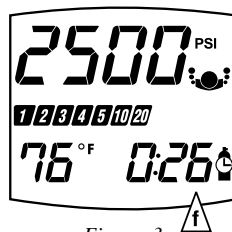


Figure 3
Active Mode with Air Time Remaining

Sleep Mode

In Sleep Mode (figure 4), the EPG only displays the time of day (a). If the EPG is in Sleep Mode, you must activate it by pressing either button before using it on a dive.

NOTE: Do not worry if you forget to turn the EPG on before the dive. The EPG can be activated under water.

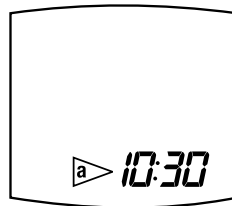


Figure 4
Sleep Mode

Menu System

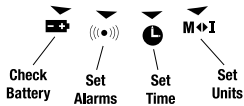


Figure 5
EPG® Menu System

The EPG® has four menu options (figure 5): Check Battery, Set Alarms, Set Time, and Set Units. The menu system can only be accessed while in Standby Mode. You navigate through the menu system by pressing the left button. The screen for each mode shall appear, along with the menu cursor denoting which mode it is. When you reach the mode you want, press the right button to select (except Check Battery). While in any of the set modes, pressing the right button increases a value and pressing the left button decreases a value. Pressing and holding either button accelerates the change. Pressing both buttons accepts the new setting and advances to the next setting and exits the mode after the last setting.

Check Battery

1. Press the left button once to advance the cursor over the Battery Icon.
2. For this mode, you do not need to press the right button to select. Pressing the right button will return you to Standby Mode.
3. The unit displays the battery voltage (figure 6). If the battery displays a voltage lower than 2.75v, it is highly recommended that you change the battery immediately. (**See page 10 for battery warning**).
4. If there is no button activity for 30 seconds, the gauge will automatically return to Standby Mode.

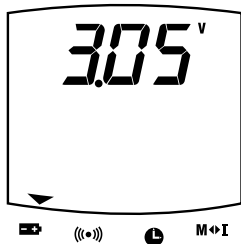


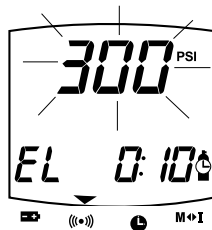
Figure 6
Check Battery

Set Alarm

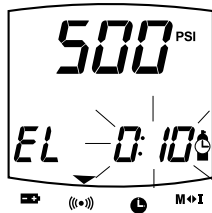
1. Press the left button twice to advance the cursor over the Alarm Icon.
2. Press the right button to select.
3. The cylinder pressure starts to flash (figure 7). Press the left or right buttons to change the setting in 10 psi (0.5 bar) increments. When you reach the desired setting, press both buttons to accept.
4. The Air Time starts to flash (figure 8). Press the left or right buttons to change the setting. Press both buttons to accept.
5. The EL (electroluminescent backlight), along with the word ON or OFF, begins to flash (figure 9). Press the left or right button to toggle between ON and OFF. Press both buttons to accept and return to Standby Mode. If set to ON, the backlight will automatically come on whenever any alarm is activated. The backlight will stay on for 10 seconds.

Note: To turn off any of the alarms, set them to 0. If there is no button activity for 30 seconds, the gauge will automatically return to Standby Mode.

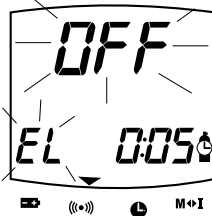
*Figure 7
Set Pressure
Alarm*



*Figure 8
Set Air Time
Alarm*



*Figure 9
Set Automatic
EL backlight
on/off*



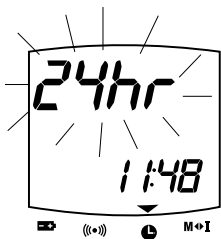


Figure 10
Set Time Format

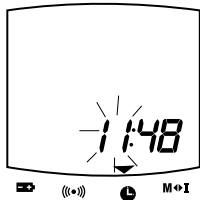


Figure 11
Set Hours

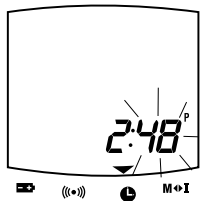


Figure 12
Set Minutes

Set Time

1. Press the left button three times to advance the cursor over the Time Icon.
2. Press the right button to select.
3. The 12hr or 24hr begins to flash (figure 10). Press the left or right button to toggle between the 12 or 24 hour clock setting. If set to 24hr, time will be displayed in a 24 hour format, e.g., 13:00 = 1:00pm.
4. The hours start to flash (figure 11). Press the left or right buttons to adjust. Press both buttons to accept.
5. The minutes start to flash (figure 12). Press the left or right buttons to adjust. Press both buttons to accept and return to Standby Mode. If there is no button activity for 30 seconds, the gauge will automatically return to Standby Mode.

Set Units

1. Press the left button four times to advance the cursor over the Units Icon.
2. Press the right button to select.
3. The PSI or BAR symbol starts to flash (figure 13). Press the left or right button to change. Press both buttons to accept.
4. The °F or °C starts to flash (figure 14). Press the left or right button to toggle between °F and °C. Press both buttons to accept and return to Standby Mode. If there is no button activity for 30 seconds, the gauge will automatically return to Standby Mode.

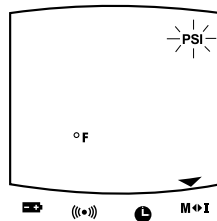


Figure 13
Set Pressure Units

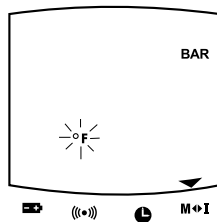


Figure 14
Set Temperature Units

Care and Maintenance

The EPG® is a robust instrument designed to withstand the rigors of SCUBA diving. However, you need to protect it from shock, extreme heat, chemical attack, and tampering.

Even though the EPG's material is tough and durable, it is susceptible to chemical attack and scratches. Chemical attack can be in the form of spray propellants, gasoline fumes in your garage or boat, and alcohol. Aqua Lung cannot replace scratched lenses, therefore it is recommended that you purchase a lens protector. Small scratches naturally disappear underwater.



CAUTION: Never use aerosol sprays, including silicone sprays, on or near the EPG®. The propellants may chemically attack the plastic, causing the plastic case to crack.

Before the dive

The EPG's plastic housing is made of a shock resistant resin. This housing, combined with the rubber console boot, protects the EPG from the normal bumps that occur while diving. However, the EPG cannot withstand the impact of heavy objects, such as weight belts or SCUBA cylinders. When you set up your dive gear on a boat or the beach, tuck the EPG into your BC pocket, or between the BC and cummerbund. Never leave the computer exposed where someone could accidentally step on it or drop something on it.

During the Dive

The most common damage inflicted on gauges while underwater is scratches to the gauge face. Scratches occur when dangling gauges get dragged over coral or rocks. Most BCs have

gauge retainers that keep the gauge console close to your body for easy access and reduce the possibility of scratching the gauge face.

Note: Dangling gauges are a major cause of damage to delicate marine life, such as corals. Always keep secondary hoses, such as your octopus and gauge, retained close to your body.

After the Dive



CAUTION: If the EPG® is not attached to a pressurized first-stage regulator while soaking (explained below), make sure that water is not allowed to enter the high pressure hose. Water entering the EPG via the high pressure hose may cause damage to the internal components.

After each day of diving, soak the EPG in a warm, fresh water bath to dissolve salt crystals. To dissolve heavy salt buildup, use a slightly acidic vinegar/water bath. After removing the gauge from the bath, rinse thoroughly with fresh water. Towel dry the gauge before final storage. Place the EPG in a cool, dry, protective case to transport.

Operating Temperature

The EPG operates normally between 32°F to 140°F (0°C to 60°C). You may notice the liquid crystal display (LCD) becoming sluggish at extremely low temperatures. This is normal and will not affect the EPG's accuracy.

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

Replacing the Battery



WARNING: A continuously flashing battery menu cursor alerts you that the battery is low and should be changed as soon as possible. If there is not enough power for the gauge to operate correctly, it immediately shuts down after activation. Since changes in temperature can suddenly shorten battery life, Aqua Lung advises that you do not dive when the battery cursor is flashing. Furthermore, Aqua Lung recommends that you install a fresh battery before any extended, multi-day dive trip.



CAUTION: Damage from improper battery replacement is not covered under the two year warranty.

To properly change the battery, follow the procedure below:

1. Remove the EPG from the console boot.
2. If there is any sign of moisture, dry the gauge off with a clean towel.
3. Using a coin (never use a screwdriver) turn the battery hatch counterclockwise and remove it from the case back (figure 15).
4. Using your fingers, press upward on the sides of the O-ring to create a protrusion and remove the O-ring from the battery hatch and discard (figure 16). Do not use tools to remove the O-ring.
5. Examine the threads of the battery hatch and case back for signs of damage, which may impair proper threading. If damage is found, return the EPG to your Aqua Lung dealer.
6. To remove the battery, turn the gauge over and let the battery fall into your hand (figure 17). Discard the battery in a proper receptacle.

- Using a lint-free cloth, wipe the new battery clean of any skin oils. Wipe away any moisture that may be in or around the battery compartment. Install a new CR2450 battery, + side up, into the battery compartment.
- Lightly lubricate a new O-ring using a food-grade silicone grease. This grease is available at most dive shops. Do not over-lubricate. Install the new O-ring onto the battery hatch. Carefully thread the battery hatch into the case bottom in a clockwise direction until snug. Using a coin, tighten the battery hatch until it is flush with the case back.
- Activate the unit to make sure it is operating properly. Install the EPG back into the console boot.

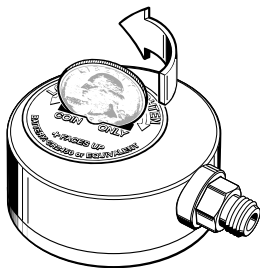


Figure 15

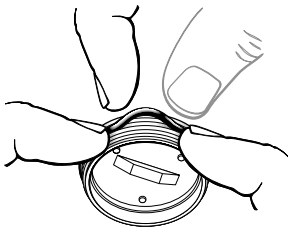


Figure 16

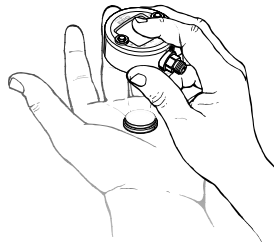


Figure 17

Specifications:

Pressure	0-5100 psi	resolution: 10 psi	accuracy + 0 psi, - 50 psi
.....	0-350 bar	resolution: .5 bar	accuracy + 0 bar, - 3.5 bar
Temperature	14°F - 140°F	resolution: 1°F	accuracy: ± 2°F
.....	-10°C - 60°C	resolution: 1°C	accuracy: ± 2°C
Hour:Min	0:00 - 12:00 AM or PM		
.....	0:00 - 24:00		
Remaining air time	resolution: minutes		
Battery Voltage	2.2 - 3.2v	resolution: 0.01v	accuracy: 0.01v
Low Battery Alarm	< 2.6v		
Battery Type	CR2450 3.0v lithium battery, or equivalent.		
Estimated battery life	<i>Sleep Mode</i> : 5 years		
.....	<i>Active/Standby Mode</i> : 400 hours		
Dimensions	Diameter: 2.37 in. (60.3 mm)		
.....	Height: 1.16 in. (29.5 mm)		
High Pressure Fitting	Meets ANSI Z86.7.2-1987 standard		

NOTES :



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