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Analyzer He/O₂

Analyzer (#8007)

He/O₂ analyzer is a precise apparatus for measuring oxygen helium concentrations in diving breathing gasses. It is a necessary tool for technical divers using nitrox and trimix mixtures.

The analyzer is characterized by its high accuracy and reliability thanks to an innovative solution for measuring helium concentrations. This technology works on the principle of measuring the speed of sound, thanks to which it is never necessary to replace the helium sensor.

Another quality of the Divesoft analyzer is its myriad of functions and add-ins. Analyzers have an in-built calculator for mixing gases, it can be connected to a compressor for watching the oxygen concentration during a continuous filling with warning alarms (a relay can also be connected for automatic turning off of the compressor after overreaching critical values), and with the aid of plugs it is possible to measure electrical voltage and resistance. This is useful especially for finding out the state of charging of the diving lights and scooters or for example of the state of a light bulb.

The analyzer can identify some other gases and mixtures used for diving. In case of a hypoxic mixture without the presence of another inert gas other than nitrogen, it warns you not to breathe such gas through the text "FOUL AIR". It can also identify argon and in special setting measure its purity (presence of air).

HOW DOES IT WORK?

A standard electrochemical oxygen sensor is used in the apparatus, which identifies the volume of oxygen. Helium volume is determined based on the speed of sound; each gas has, according to its density, a different speed of sound. The apparatus

generates sounds (they can be heard as a typical clicking), which spread through a maze filled with gas and are detected by a microphone on its end. The measuring accuracy is $\pm 1\%$.

HOW IS IT USED?

The analyzer has many sophisticated functions, while still maintaining simple and intuitive use. On the tank valve, you place one of the flow limiters; start the analyzer, which then displays the volume of oxygen and helium in percent.

Properties

- OLED display
- Durable aluminum body
- Connector for attachments
- USB connector
- Rechargeable battery

Functions

- Immediate calculation of MOD and END for the currently measured mixture
- Built-in calculators for gas blending.
- Regime for continuous blending with warning alarms (a relay can also be connected for turning off of the compressor upon exceeding the critical values)
- Gas purity regime for determining the purity of argon or other gasses and their combinations. For example helium/nitrogen, helium/argon, hydrogen/nitrogen, hydrogen/argon etc.
- Detection of the surrounding pressure and temperature – it is not necessary to recalibrate the oxygen sensor upon altering the altitude and temperature
- Connection to the PC with the possibility of creating a log of the measured data
- Possibility to upgrade the analyzer's software, new versions are available free of charge.

Simple flow limiter

A simple connection to the DIN G 5/8 valve. The connection is slipped in the input of the analyzer and attached to the tank valve. Gas flow is regulated through the tank valve. It is useful for fast analysis of gas in more than one tank. With some valves it may be difficult or impossible to set a low enough gas flow – in such case, use a flow limiter or regulator. (#8012)





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