



The Diver Gas Analyzer is an O₂ & CO₂ gas analyzer. Ideal in combination with the Digital Depth Gauge.

The DGA has an built in O₂ and CO₂ sensor. Both are connected to a built in constant pressure and flow manifold. The flow manifold creates a stable 1 l/min airflow to both sensors. The flow manifold will always be stable from a sampling point pressure between 1 – 20 Bar. The DGA is available in 6 versions, so it can be used in different situations.

The DGA is a full featured gas analyzer specially built for gas panel gas analyzing. The DGA has a multiple sensors for O₂, CO₂, gas temperature and relative humidity (RH) measuring real-time during gas sampling. The data can be internal logged and retrieved with a PC connected via various connection to the DGA.

The DGA has an extensive alarm settings possibility. For O₂ you can set high and low alarm values, for CO₂ you can set two levels of high alarms. When alarms are triggered a warning on the screen will appear and an audible internal alarm will sound. Also there is an alarm relay that can be used to trigger an external audible or visible alarm device, like a horn or a flashlight.

The DGA can be connected to the DDG. Then the DGA will receive the diver depth information and will use it to calculate the ppO₂. Also the ppO₂ can be set as a maximum alarm level. The DGA will send gas data information to the DDG. The DDG will log all DGA data with the divers depth/time log. DDG Visualizer, software for PC, tablet and Smart Phone. The software makes synchronizing the logged files easy with Bluetooth or wired (RS232) connection.

Features

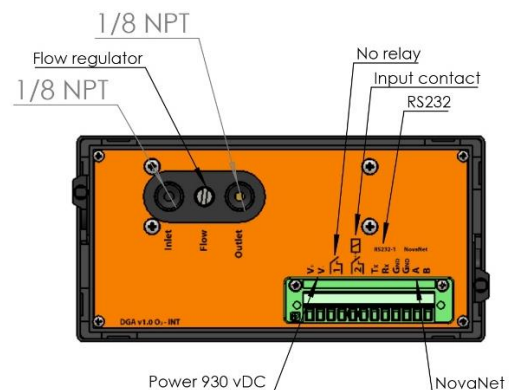
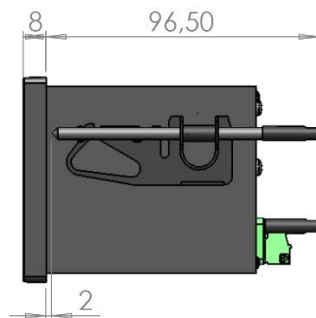
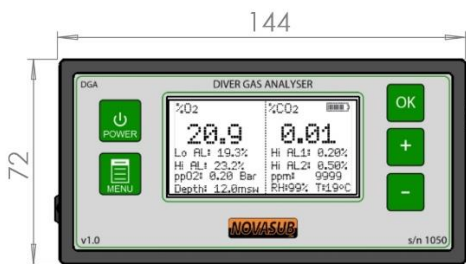
- O₂ 0-100% analyzing
- CO₂ 0-30% analyzing
- Gas Temp
- Relative Humidity
- Pressure and flow control
- Logging of data
- Transflective LCD with backlight

Applications

- Diver Gas monitoring
- Digital depth gauge
- Black Box
- Automatic logging with DDG

Versions

	External conn. for 2 wire O ₂ sensor. (Supplied excl. O ₂ sensor)	External O ₂ cell in plastic probe with 2 m cable.	Built in O ₂ cell	Built in flow and pressure control.	Built in CO ₂ cell.
NSDGA V1.0	X				
NSDGA-O2-EXT		X			
NSDGA-O2-INT-EXT			X		
NSDGA-O2-INT			X	X	
NDGA-O2&CO2-INT-EXT			X		X
NSDGA-O2&CO2-INT			X	X	X





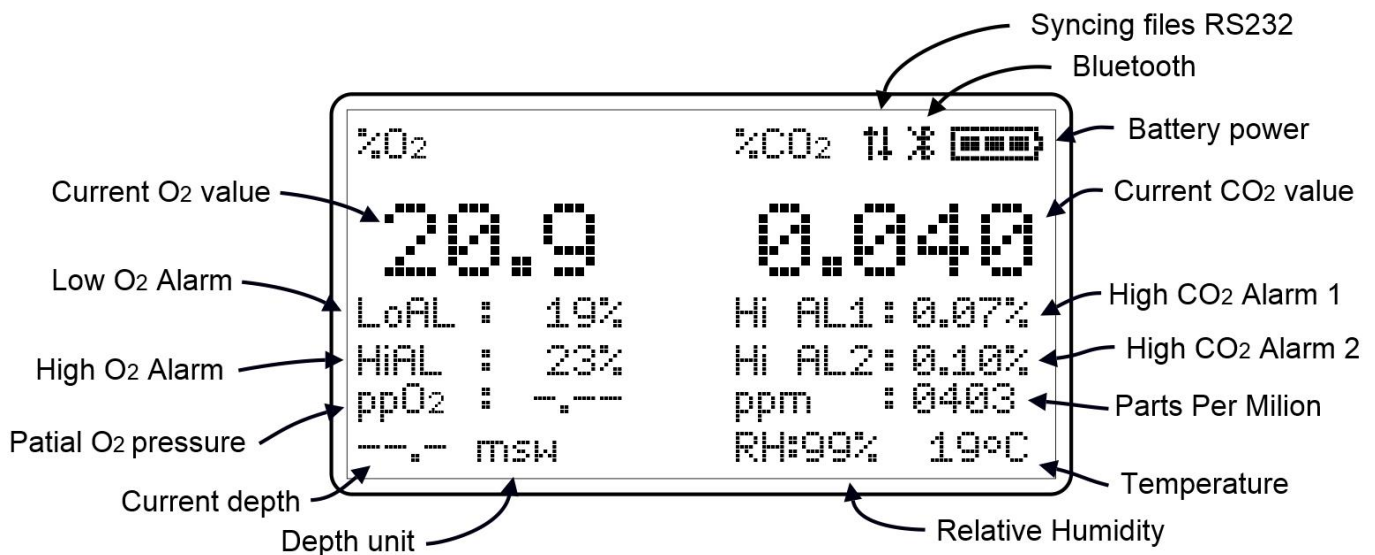
Technical Specifications

Dimensions	: 144x72x130 mm
LCD size	: 33x66 mm
Transflective LCD	: 128x64 dots with backlight
Temperature range	: -40 ~ 60 °C
ppO ₂ value range	: 1,4 ~ 1,6 bar
O ₂ rang	: 0 to 100 %
Inlet / outlet	: Male 1/8" NPT
External power supply	: 9-30 vDC
Internal power	: NiMH battery pack, 6v-2200 mAh
Battery operating time	: 10-24 hrs.
Log and data transfer to PC	: Bluetooth, RS232 and RS485 (NovaNet)
Operating Principle	: Non dispersive infrared (NDIR)
Measurement range CO ₂	: 0 to 30 % vol (CO ₂)
Measurement range RH	: 0 to 100%
Accuracy	: ±0,2%vol ± 3 % of reading
Operation temperature range	: 0 to 50 °C
Operation humidity range	: 0 to 95 % RH non-condensing

Functions

- Actual O₂ & CO₂ value
- Link to DDG/NovaNet
- Actual depth from DDG
- ppO₂ – calculate with DDG
- Relative humidity measurement
- Part per million measurement
- Integrated flow and pressure regulator
- Alarms: Low O₂ alarm, High O₂ oxygen alarm, High CO₂ alarm 1 & 2
- Output for alarm relay or buzzer
- Smart charger with battery capacity
- Adjustable to MSW or FSW
- Adjustable to Fresh or Salt water
- Firmware upgradable by user
- Serial string output to video overlay or other device

Main window indicating most of the functions. All gas date is directly visible.



Related Products:

- DDG 1&2

Future add-ons:

- Decompression tables
- Decompression logging

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