

NSDDG Digital Diver Depth Gauge

DDG | Digital Diver Depth Gauge for dive profile logging

NOVASUB Digital Depth Gauge (DDG) is a high-end digital pneumo depth gauge. The DDG is developed to replace or supplement the current analog pneumo gauges. However, the DDG is not only a replacement of your standard pneumo depth gauge but a diver depth tool with multiple extra features making diver data registration more accurate and safe.

This gauge is very accurate and can measure depth in two ways:

- **Using the internal depth sensor connected to the pneumo hose.**
- **Using the UDS-3 external pressure sensor at the end of the diver umbilical.**



The option with an external pressure sensor ensures a continuous measurement of the actual depth without surface operations.

Using the constant depth measurements makes the DDG a complete tool for commercial dive logging. The DDG has the standard basic features of starting the Dive time chronometer; Dive time and Start time are logged along with the maximum reached depth. During the dive, the display also shows the water temperature of the diver's water surrounding. It calculates if the diver is descending or ascending and indicates the speed of ascending.

The DDG has more; the dive can be logged in a user-selectable interval. This log is stored in the DDG internal memory and can be recovered using the Windows-based DDG Visualizer software. Each dive can be logged to a selected diver number to keep track of each diver's dive information. In the DDG Visualizer software, the Dive Profile will be displayed graphically along with all logged data. In this program, the diving profiles can be added commentary and exported for further use.

Accessories :

Features:

- Dive logging
- Internal pneumo sensor
- Transflective LCD

Applications:

- Commercial Diving
- Fixed installations
- Dropdown systems
- Black box



The **UDS-3** is a light and compact two-wire pressure sensor for multiple applications of depth monitoring.

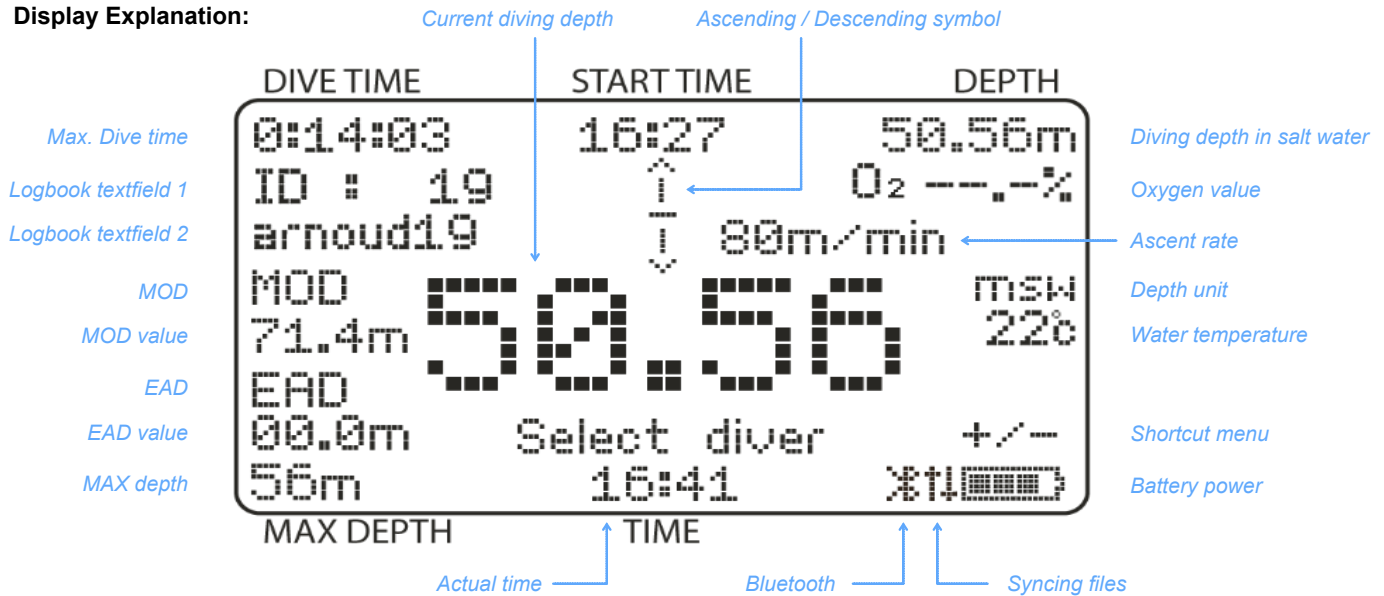
website link : <https://www.novasub.com/product/square-digital-diver-depth-gauge-for-dive-profile-logging/>

product video : <https://www.youtube.com/channel/UCRqqqmJy8O7XEabp7S1rpQ>

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Display Explanation:



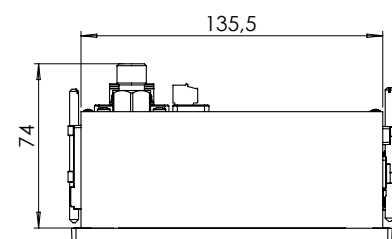
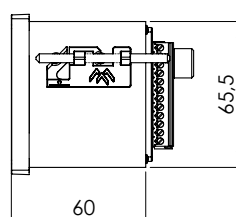
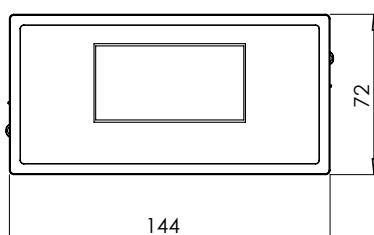
Functions:

- Actual & Maximum Depth
- Depth readout shown in large text size
- Start time & dive time (manual and auto)
- Diver name input
- Nitrox equivalent air depth settings
- Digital calibration
- Adjustable zero-point
- Adjustable to MSW or FSW
- Adjustable to Fresh or Saltwater
- Selectable internal or external pressure sensor use
- Configurable for other depth sensor ranges
- Alarms: Diver depth, Time, Ascent rate, Max. Operating Depth
- Pneumatic valve control relay
- Output for alarm relay or buzzer
- Low-pressure alarm input
- Smart charger with battery capacity indication
- Automatic diver logging
- Logging of all dives (selectable per diver)
- Visualization software for reports of the log-profiles
- Firmware upgradable by user
- Serial string output to video overlay or another device

Specifications:

Screen	
Type	Transflective LCD with backlight
Resolution	128 x 33
Screen size	66 x 33 mm
Operation	
Temperature range	-10 ~ 60 °C
Dive logging start	At 1m depth
Dive counter	20 divers, 255 logs each
Ascent rate	0 ~ 20 m/min
ppO ₂ value range	1,4 ~ 1,6 bar
Nitrox value range	21 ~ 60 %
Internal depth sensor	0 - 60 MSW accuracy ± 0.25%
Connectors	
Pneumo	Male ¼" BSP
Diver sensor (UDS-3)	4 ~ 20mADC 2-wir
Data transfer	USB/RS232
Battery	
Power Supply	12-32 vDC
Battery Capacity	2200 mAh @ 6V
Battery Run time	min. 12 hours
Size	
Width	144 mm
Height	100 mm
Depth	72 mm
Weight	150 g

Dimensions (mm)



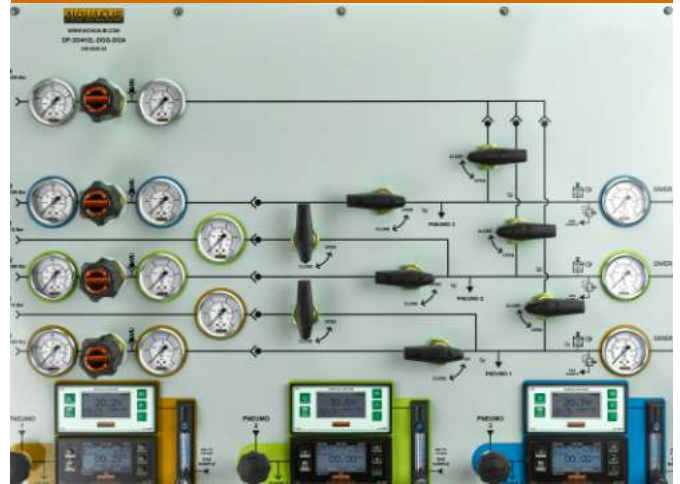
NOVASUB Available products that can be used in combination with DDG-P1 :

PROTEUS



DIVING AIR / COMMS / LIGHT & VIDEO PANEL
All-in one rack

BOREAS-R1



DIVE AIR PANEL RACK (3 DIVER)

DERO-R1



DIGITAL DEPTH GAUGE RACK

DUx



UMBILICALS

DLRx & CDURx



CABLES
for video & comms

DGA



DIVER GAS ANALYZER