MOSS - DEPTH

Practical and exact depth readings for marine, diving, and civil under water applications.

MOSS INTRODUCTION

The MOSS is a practical, robust and portable measurement solution for your monitoring and surveying needs. With the universal setup of the MOSS many different sensors can be connected and therefor the MOSS can be applied at projects in the marine, diving and civil sector.

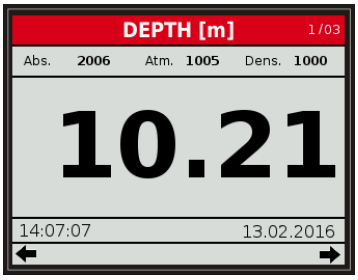
With the integrated battery system the MOSS is ideal for field measurements where no power supply is available. Data can be stored internally so no additional laptop or pc is required.

The measurement and monitoring tools of TARKA-SYSTEMS are made with over 15 years of practical field experience in mind. Therefor the MOSS is built into a rugged case with special connectors and logical operational screens. Training according the ***1P5M*** principle, not more explanation needed then **1 P**age and **5 M**inutes.

The data is gathered, calculated, presented and stored on a selectable time base. The stored data can be used for project handovers and reports.
With an additional excel tool the project settings can be prepared in advance and the collected data can be read for automatically report generation.

DEPTH MEASUREMENT

For the exact depth measurement the MOSS uses two pressure sensors, one atmosphere sensor which is integrated inside the MOSS case with range 750-1250 mbar and an absolute sensor connected by cable with range 0-5000 mbar.



MOSS display values:
- **Depth [m]**
- **Absolute [mbar]**
- **Atmosphere [mbar]**
- **Density [kg/m3]**
- **Date**
- **Time**

The exact depth is calculated by using the absolute pressure, the atmosphere pressure and the density of the water (fresh or salt). The density can be read by an additional sensor or entered manually.

When divers' video or light cable is not used on the umbilical, this input can be used for the pressure sensor with a short conversion cable.
With an additional splice on the dry-end of the umbilical the signal can be feed into the MOSS without an extra sensor cable.

Left: Direct readings on MOSS, located at dive-container
Right: Pressure sensor at location of diver

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MOSS ADVANTAGES

The depth measurement with the MOSS has the following advantages:

- Digital measurement by means of a pressure sensor instead of visual observation of lead-line.
- Sensor can be connected to lead-line when no divers are available.
- Can be used in any excavation pit.
- Easy to apply, direct from surface, dive-container or project bus nearby with or without a small boat or pontoon.
- Direct readings on screen of MOSS.
- Readings are stored for validation or generation reports.
- Portable system with integrated battery supply.
- Client specific software possible.
- Pressure sensor can be connected to existing umbilical of diver.
- Optional: connection of density sensor.
- Optional: Excel tool for project settings and automatic generation of reports.

Main: Original visual depth reading on pontoon with lead-line.
Insert: New digital readout of depth on MOSS screen

Save time and personal by using the MOSS system for your depth surveys due to the pragmatic design, clear functionality and the ability of reading a wide range of sensor inputs.

MOSS FEATURES

The MOSS system has a modular setup and can read the most common sensor inputs.

Available options with the available modules:

- Serial input RS232 (NMEA)
- Serial input RS485 (MODBUS-RTU)
- mA input (0-20mA)(4-20 mA)
- Volt dc (0-10V)
- Digital inputs/outputs

Other delivered MOSS measurement systems:

- Freeboard, draft and incline (Marine)
- Pressure and temperature tests (Civil)
- Water speed and direction (Salvage)
- GPS and wind (Offshore)

For more information please refer to www.tarka-systems.nl or contact info@tarka-systems.nl

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MOSS-DEPTH

Rugged case	**: 305x270x194 mm**
Weight	**: Approx. 4.5 kg**
Battery	**: 90 Wh (approx. 24 hours)**
Connectivity	**: 1 x sensor 750-1250 mbar**
	Integrated in case
	: 1 x sensor 0-5000 mbar
Cable reel	**: 60m cable on reel**
	Interface cables
Charge	**: 1 x input 19-24 Vdc**
Display	**: 3.5 inch, 320x240 pixel**
Software	**: Display and store data**
Optional	**: *1 x sensor density***
	: *EXCEL tool for reports*

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