

MOSS - DEPTH

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

MOSS DEPTH SYSTEM

The MOSS depth system is a portable unit to determine the exact depth during a marine, diving or civil underwater project. The system provides real-time depth values from waterline as well from a reference level (NAP). All data is logged to be able to create inspection reports.



Total set consist of:

- MOSS unit with atmospheric -sensor
- 50m cable with depth sensor at diver
- 20m cable for NAP reference sensor
- Density sensor
- Angle sensor
- Control-box for special functions

The depth sensor (diver) is used with a separate cable or can be connected to the umbilical (video) line when available (4-core input). When umbilical is used a special cable must be used on the surface to get the signals from the umbilical to the MOSS-logger-unit.

The Control-box is used to store additional information on specific locations as depth and location-number.

DEPTH MEASUREMENT

For the depth and NAP reference measurement the MOSS uses three absolute pressure sensors:

1. Sensor to measure the atmosphere.
2. Sensor just below waterline with fixed distance to NAP reference.
3. Sensor at depth (at diver or on object)

The atmospheric sensor is integrated inside the MOSS. The NAP-reference sensor is placed just below the waterline with a fixed distance to the NAP reference level. The depth sensor is going down with the diver to determine the depth.

To calculate the correct depth also the density of the water must be known. The density can be measure with a separate density floater. The density value can be entered to the MOSS-logger software. The difference in depth between salt and fresh water is significant.

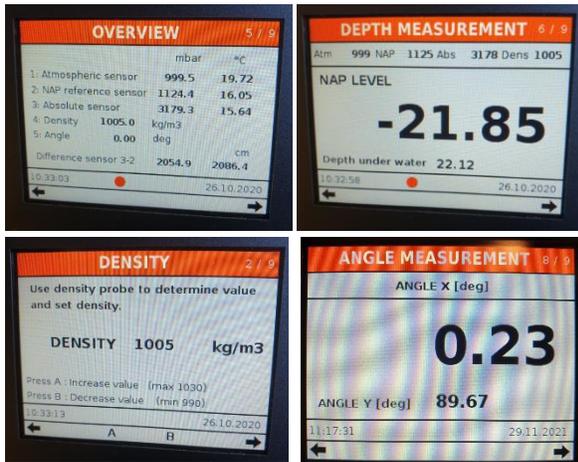
With clear screens the supervisor can operate the MOSS very easily and no extra training is required. The setup time of the system is less than 15 minutes.



MOSS DEPTH system in use to check anchor heights

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Top: Different displays of the MOSS unit.

Bottom: Excavation-pit, with GEWI-anchors and LEKA-piles



All anchors and piles were measured by divers when excavation-pit was full of water.

When water was pumped out a total-station was used for a reference measurement.

Result were spot-on and exactly the same.



Determine the angle of the wall.

Picture was taken above surface as example.

MOSS ADVANTAGES

- Digital measurement by means of a pressure sensor instead of visual observation or lead-line.
- Can be used in excavation pits also underneath structures.
- Depth check on submersion projects.
- Easy to apply, direct from surface, dive-container or diving bus.
- Direct readings on MOSS-logger.
- Readings are stored on USB stick for validation or generation reports.
- Portable system with integrated battery supply.
- Angle measurement for check on walls or constructions.
- Pressure sensor can be connected to existing umbilical of diver.
- Control box for extra options

Save time and personal by using the MOSS system for your depth surveys due to the pragmatic design and clear functionality.

MOSS DETAILS

Rugged case	: 305x270x194 mm
Weight	: Approx. 4.5 kg
Battery	: 90 Wh (approx. 20 hours)
Connectivity	: 1 x sensor atmospheric
	: 1 x reference sensor NAP
	: 1 x sensor depth
	: 1 x angle sensor
Cable	: 50m cable depth sensor
	: 20m NAP sensor
	Options for longer lengths
Charge	: 1 x input 12 Vdc
Software	: Display and store data