MOSS – HYDROSTATIC

MOSS INTRODUCTION

The MOSS is a practical, robust and portable measurement solution for your monitoring and surveying needs. With the universal setup many different sensors can be connected, displayed and stored. The MOSS can be applied in harsh environments in different project sectors like marine, offshore, civil and others.

With the integrated battery system the MOSS is ideal for field measurements where no power supply is available. Data is stored internally or on USB stick so no additional equipment is required.

The measurement and monitoring tools of TARKA-SYSTEMS are based on fifteen years of practical field experience. The MOSS is based on a rugged case and connectors. With logical layout and screens the MOSS is easy to operate.

The data is gathered and presented for direct readout. The stored data can be used for project handovers, reports and further analyzing.
With an additional EXCEL-tool the project settings can be prepared in advance and the collected data can be read for automatically report generation by the tool.

Full info on MOSS options: MOSS_options

HYDROSTATIC TESTS

For pipeline installation/services a hydrostatic test is a crucial part to determine the strength of the pipeline as well to detect any leakage. With the battery powered system this test can be executed in the field without extra tools.

The standard MOSS unit for hydrostatic tests can read four 4-20mA inputs. With one pressure sensor and two temperature sensors (pipe and ambient temperature) a hydrostatic endurance test can be executed. Additional to that one extra input channel is free of use.

The specifications of the measurement can be predefined with an additional EXCEL-tool and stored on USB flash-drive. By inserting the USB drive into the MOSS the settings are read by the MOSS software. After the measurement is started the life data is displayed as well as the values per hour. The hourly overviews are stored on the USB flash drive. After the measurement is completed the data on the stick is read by the EXCEL-tool again and a complete report is generated automatically.

JUMO: Pt100 temperature sensor
JUMO: Relative pressure sensor
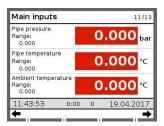
PROVEN FUNCTIONALITY

Multiple MOSS units are delivered to the company **A.Hak pipeline service** for short and long term measurements.

Over the last year the system has proven its functionality to execute measurements and to generate reports directly on-site. On request the MOSS has been upgraded with a higher accuracy board and longer measurement periods.

Standard setup with the three sensors, all with 4-20 mA output [2-wire].

MOSS main display:
- **Pipe pressure [bar]**
- **Pipe temperature [°C]**
- **Ambient temp. [°C]**

- **Date**
- **Time**

Graphical display on MOSS

CLIENT SPECIFIC SOLUTIONS

The hydrostatic system is delivered with standard hardware and software but client specific options (hardware/software) are possible on request. Different or additional sensors are also possible.

MOSS HYDROSTATIC ADVANTAGES

The MOSS-hydrostatic measurement system has the following advantages:

- Portable battery powered system. Measurements can be executed in the field without additional tools.
- Digital measurements of pressure sensor and two temperature sensors.
- Any range sensor with 4-20 mA output can be connected. Details can be defined in setup file.
- Easy to apply and run measurements.
- Direct readings on screen of MOSS.
- Readings are stored for validation or generation reports.
- Overview of hourly values with endurance test.
- Predefined setup with EXCEL-tool
- Automatic report generation with EXCEL-tool.
- Client specific software possible.
- Options for additional inputs.

SPECIFICATIONS [STANDARD]

Rugged case	**: 305x270x194 mm**
Weight	**: Approx. 4.5 kg**
Battery	**: 90 Wh (approx. 20 hours)**
Charge time	**: Approx. 2.5 hour**
Connectivity	**: 1 x pressure sensor**
	: 2 x temperature sensor
	: 1 x free 4-20mA input
Charge	**: 1 x input 12 Vdc**
Display	**: 3.5 inch, 320x240 pixel**
Software	**: Display and store data**
Storage	**: USB flash drive**
EXCEL tool	**: Predefine settings**
	: Report generation