

**General**

- Working temperatures: -10°C to +40°C external temperature
- Guaranteed IP rating of standard enclosure: 65+  
Functional IP rating: IP67
- Measurement interval: 1 to 60 minutes in logical steps
- Power supply: 9V battery
- Data storage: SD card, 11 million data points
- RS232 output (optional)

**Redox potential measurements**

- 48 Redox channels
- Typical input impedance of each channel >2TOhm
- Measurement range: -1000mV to 1000mV
- Internal measurement error: < 2mV
- Overall typical measurement error: < 15mV

**Temperature measurements**

- 50 Temperature channels
- Each channel reads one digital temperature value
- Typical Accuracy: 0.2°C

**Redox potential measurements**

The redox potential is a very important parameter in the field of chemical behavior, wetland development, chemical transformation and degradation studies. Its value will show which process is possible, but it can fluctuate strongly. Its spatial and temporal variation can be studied now!

The HYPNOS datalogger has the unique capability to simultaneously measure 48 redox potentials and up to 50 temperatures. The continuous measurements are performed with high precision by an independently running logger. The logger can be applied outside as it is weather and temper proof. A range of probes are available and can be attached to the logger.

**Contact:**

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More information on continuous redox potential measurements:

<http://www.redoxpotential.info/>

MVH Consult supplies probes made by Paleo Terra.

<http://www.paleoterra.nl/>

### Advice

MVH Consult will help with the setup of your experiment.

- Setup of the experiment
- Configure the logger to your wishes
- Local setup in the field or laboratory
- Technical support
- Data storage

### Data analyses

“What do the results mean?” With the HYPNOS datalogger you will get a time series that needs interpretation. MVH Consult offers services on:

- Time series analysis
- Interpretation of the data

### The HYPNOS datalogger is used in studies on

- Arsenic mobilization
- Archaeological *in situ* preservation
- Plant-Soil interaction
- Artificial wetland functioning
- Environmental pollution plumes

### Publications

- Vorenhout *et al* 2004. J. Environ. Qual.
- Vorenhout *et al* Acc. Int. J. Environ. Anal. Chem.

### Casing

The casing can be modified to your needs.



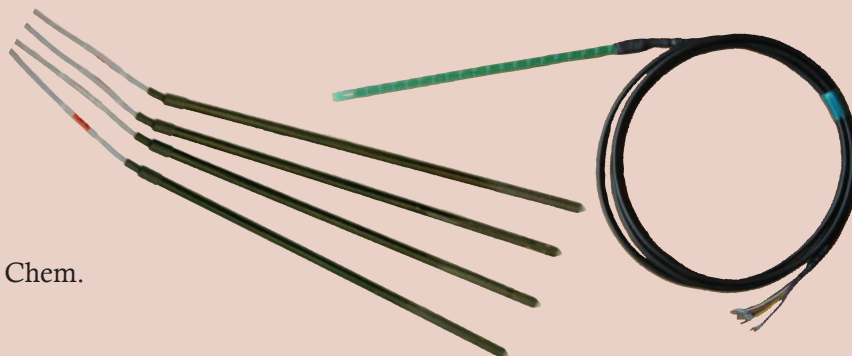
Waterproof single-use cable glands.



Waterproof screw-on connectors for multiple use.

### Probes

Probes with up to 6 redox and multiple temperature points are available to connect to the HYPNOS logger. This type has been applied at depths of up to 20 meters depth. PCB probes are available for millimeter scale measurements.



## CONTINUOUS MEASUREMENT OF REDOX POTENTIAL AND TEMPERATURE

