

## **SubSea Power Module**

## **Deep-water Monitoring System**

The SubSea Power Module provides energy for deep-sea and shallow-water instrumentations. The lithium cells are used since 25 years all over the world and are known as the worlds most reliable and most durable - longest lasting cells. For economical reasons Alkali Manganese batteries and Lithium-Ion accus are provided.

With the SmartDI Controller / Datalogger as the heart, many different sensors, a power management and a data transmission a complete monitoring system is realized.

Because the excellent characteristics, the SubSea Power Module is best used for off-shore (ODAS = Ocean Data Acquisition System) and underwater / artic applications or under other extreme conditions.



Setup example, please contact us for your requirements Rough Housing

Titanium 6000m - Ø 160 mm, L 846mm, TBD kg

**Economical** Glass sphere 6000m (2 pieces for the example below) Ø 430 mm (17"), TBD kg Housing

Vacuum port, protection shell

Please note: not to use with ROV's or divers!

SUBCONN® connector BH4F Connector

Operating depth 6000 m

-15°C ... +65°C **Temperature** for full performance

> -55°C ... +85°C with app. 66% capacity

Open voltage 15.6 V, other on request Voltage

Nominal voltage 14.0 V Minimal voltage 12.0 V (app.)

Maximal capacity Capacity 510 Ah (app., example)

> Typical capacity 350 Ah (app. for rated parameters)

Lithium - Bromine Chloride Complex Cell 3.9V, 30Ah each Cell type

Configuration Example: 17 strings with 4 cells each (15.6V, 510Ah)

350 mA per string, in this example total 6A (or different strings for different Nominal current

power consumers on your request)

3A per string, in this example total 51A (or different strings for different Max. current

power consumers on your request)

3% per year at +25°C Self discharge

**Options** Change titanium housings or glass spheres

Change size of housings

Change battery type, e.g. Lithium cells or Akali-Manganese cells

Change capacity, rated Current and voltage (e.g. 24VDC, 230VAC)

HydroC<sup>™</sup> sensor family for CH<sub>4</sub>, CO<sub>2</sub>, Oil-in-Water (PAH), H<sub>2</sub>S, MEG Related products

OceanLine sensor family for oceanographic, hydrographical parameters

SmartDI Subsea Datalogger / Control units

SubSea Monitoring Station



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