

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 / arctic applications or under other extreme conditions.



<i>Setup example, please contact us for your requirements</i>	
Rough Housing	Titanium 6000m - Ø 160 mm, L 846mm, TBD kg
Economical Housing	Glass sphere 6000m (2 pieces for the example below) Ø 430 mm (17"), TBD kg Vacuum port, protection shell <i>Please note: not to use with ROV's or divers !</i>
Connector	SUBCONN® connector BH4F
Operating depth	6000 m
Temperature	-15°C ... +65°C for full performance -55°C ... +85°C with app. 66% capacity
Voltage	Open voltage 15.6 V, other on request Nominal voltage 14.0 V Minimal voltage 12.0 V (app.)
Capacity	Maximal capacity 510 Ah (app., example) Typical capacity 350 Ah (app. for rated parameters)
Cell type	Lithium - Bromine Chloride Complex Cell 3.9V, 30Ah each
Configuration	Example: 17 strings with 4 cells each (15.6V, 510Ah)
Nominal current	350 mA per string, in this example total 6A (or different strings for different power consumers on your request)
Max. current	3A per string, in this example total 51A (or different strings for different power consumers on your request)
Self discharge	3% per year at +25°C
Options	<ul style="list-style-type: none"> ■ 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)
Related products	<ul style="list-style-type: none"> ■ HydroC™ sensor family for CH₄, CO₂, Oil-in-Water (PAH), H₂S, MEG ■ OceanLine sensor family for oceanographic, hydrographical parameters ■ SmartDI Subsea Datalogger / Control units ■ SubSea Monitoring Station

