



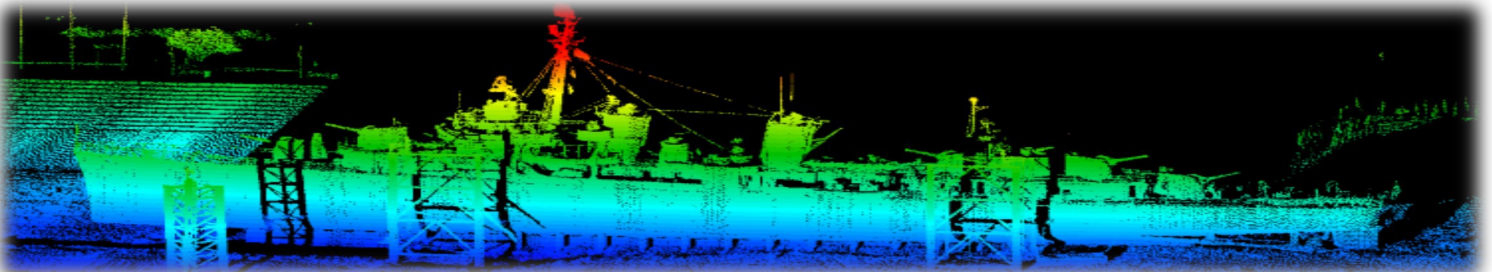
## Seminario e Corso HYPACK Barcellona

In collaborazione con l'Ente Porto di Barcellona

Il corso: rilievi multi-beam e laser scanner.

Le date: 13 – 17 Ottobre p.v.

Programma del corso e modulo di iscrizione disponibili a richiesta.



### **HYPACK® Seminar and Multi-Beam Hands on Training Course**

**Barcelona, Spain**

**October 13th -17th, 2014**



On October 13-17, 2014, in collaboration with the Port Authority of Barcelona, HYPACK, Inc. will hold a one day HYPACK Basic Seminar and a three day multibeam hands on training course. The course will concentrate on HYPACK® and HYSWEEP® multi-beam applications.



Port de Barcelona



HYPACK, Inc.  
Sounding Better!

# Nuovi strumenti

## Starmon ES External Sensor Data Logger



### Key features

- High temperature logging up to 316°C (600°F)
- High pressure logging up to 2060 bar (30,000 PSIA)
- Compact size, durable and robust
- Large memory size, long battery life and replaceable battery
- Ideal for logging data in demanding environments

### Examples of Application

With its small size, rugged design and compatibility with corrosive environments, it's the ideal choice for many explorations and industries.

- Monitoring hydrothermal vents pouring hot, mineral-rich fluids from beneath the seafloor
- Oil and offshore explorations
- Geothermal and power generation
- Wellhead and pumpstation monitoring

### Technical Specifications

Sensors	Temperature and pressure (depth)*	Sampling interval	User programmable. Any interval from 1 sec. up to 90 hrs.
Size (diameter x length)	Logger: 150 mm x 25 mm External sensor: 125 mm x 37 mm	Thread	7/16" (11 mm) in diameter
Housing material	Titanium	Pressure range	Choose a calibration range from 0 up to: 345 bar (5000 PSI), 690 bar (10,000 PSI), 1034 bar (15,000 PSI), 1378 bar (20,000 PSI), 1724 bar (25,000 PSI), 2068 bar (30,000 PSI)
Weight	Logger: 215 g Sensor unit: 467 g	Pressure resolution	0.04% FS (full scale)
Memory type	Non-volatile (EEPROM)	Pressure accuracy	+/-0.2% FS (full scale)
Memory capacity	174,750 temperature (external+internal) and pressure measurement <b>505x445</b>	Battery life	10 years***
Temperature resolution	External sensor: 0.11°C (0.2°F) Internal sensor: 0.025°C (0.45°F)	Start date/time of recordings	User programmable date and time for starting recordings
Temperature accuracy	External sensor: 0.5°C (0.9°F) Internal sensor: 0.1°C (0.18°F)	Application software	SeaStar
Temperature range	External sensor: 0°C to +316°C (32°F to +600°F) Internal (logger) sensor: -2°C to +40 (28°F to 104°F)**	Data import	DAT file can be opened in other programs (e.g. Excel)
Data retention	20 years (data is retained even if battery fails)	Computer interface	Communication cable, RS-232C 9 pin w/USB converter (between logger and PC)
Clock	Real time clock. Accuracy +/- 1 min/month	Cable connector	Subsea military plug (between logger and sensor unit)
		Cable length	User defined length of the subsea cable

## Occasioni

**AML Oceanographic Base-X**  
**Profilatore autoregistrante di velocità del suono**

**€ 4.790,00 + IVA – pronta consegna**

