



**PULSE**  
Structural  
Monitoring



**INTERMOOR**

# INTER-M<sup>®</sup> PULSE

A new and innovative mooring  
line monitoring technology

## Direct In-Line Tension Monitoring

In conjunction with Pulse Structural Monitoring, InterMoor has taken its H-Link manufacturing knowledge and combined it with the very latest mooring monitoring technology. Connecting mooring chains together, the Inter-M Pulse will monitor and track the in situ tension for each mooring line and transmit the tension data acoustically to the top side control room interface. The Inter-M Pulse features and benefits are:

- Full history of mooring line
- Acoustic data transmission
- On-demand data upload
- Traffic light alarm system
- Topside power not required
- Deployable over the back of a stern roller
- Suitable for moored FPSO and MODU
- Provides crucial information after a storm or hurricane, saving potential downtime



### Specifications:

- Deployable in depths up to 1500 m.
- Configurable battery options
- Four main components
  - 2 INTEGRIpod AF loggers
  - A standard InterMoor H-link
  - A durable, marine grade plastic shroud
  - A topside data acquisition system

### Benefits:

- A class approved long term mooring connector
- Direct tension measurement
- Data available on demand
- Acoustic transmission eliminating the risk of severed cables
- Immediate alarm if the tension exceeds preset values

### A Proven Technology:

In a sea trial completed on the Ocean Nomad with the support of BG and Diamond Drilling, the system measured tension and inclination data over a 1-month period during the sea trial. The data was sent back to the topside system via the acoustic data link once a minute for several hours a day. The sea trial proved that the system will communicate in a range of sea states from calm to a max wave height of 7.8 m. with a significant wave height of 5.1 m.

The sea trial also proved that the Inter-M Pulse is deployable and recoverable from the back of a boat over a stern roller.

Patent pending.

InterMoor is the leading mooring, foundations and subsea services provider delivering innovative solutions for rig moves, mooring services and offshore installation projects.



**INTERMOOR**

**InterMoor Ltd.**

Tern Place House  
Tern Place, Bridge of Don  
Aberdeen AB23 8JX, UK  
T: +44-(0)-1224-701830  
[www.intermoor.com](http://www.intermoor.com)  
[info@intermoor.com](mailto:info@intermoor.com)

Pulse Structural Monitoring is the leader in marine structural monitoring and has been responsible for the provision of highly successful monitoring systems and services since 1998.



**Pulse Structural Monitoring**

16000 Barkers Point Lane  
Suite 120  
Houston, Texas, 77079, USA  
T: +1-713-422-2663  
[www.pulse-monitoring.com](http://www.pulse-monitoring.com)  
[info@pulse-monitoring.com](mailto:info@pulse-monitoring.com)