

Passive

Autonomous

Data

System

## Environmental Exposure Monitoring Of Ordnance, Munitions And Explosives

Portsmouth Aviation Limited are currently developing an Ordnance, Munitions and Explosives (OME) environmental exposure monitoring system that will provide a simple yet effective means of recording shock, vibration, temperature and humidity during storage and handling. Data will be harvested using innovative multi-sensor technology.

Aimed primarily at the conservation of high value assets deployed outside their normal operating environment, PADS will be able to provide a cost-effective monitoring solution for any item of OME where a requirement exists.

Using proven technology and with the inclusion of an innovative, GPS enabled, asset tracking solution, PADS will be able to provide user-defined monitoring for the most demanding customer need. Harvested information will include asset ID, current location, date and time as well as sensed data streams that can be filtered at source.

Designed for use in the most exacting environments, Intrinsically Safe (IS) and fully compliant with current hazardous area legislation, PADS will offer a safe and effective monitoring solution. PADS is also able to be retro-fitted to existing

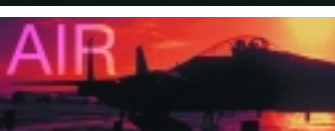
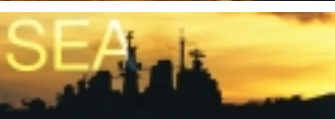
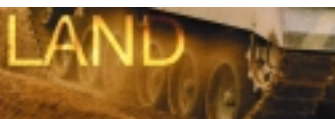
OME with little or no disturbance to the usual maintenance routine.

Development of low or no RF radiation 'Through-The-Box' (TTB) data transmission technology allows data to be harvested from sensors placed within sensitive munition containers without the need for direct access or container modification. A battery life of 3-5 years ensures continuous long-term monitoring and reduced maintenance cycles.

Innovative software development will allow downloaded data to be analysed almost on-the-fly. Secure transmission via the Internet means data handling may be centralised to reduce the risk of errors and keep infrastructure costs to the minimum.

The PADS solution aims to offer a complete environmental monitoring and asset tracking package for Ordnance, Munitions and Explosives with full integration of filtered data into existing asset and engineering management systems.

If you have a need for accurate and informed data on the environmental exposure your OME are being subjected to, then please call for further information on this innovative project.



### Portsmouth Aviation Limited

Airport Service Road, Portsmouth, Hants. PO3 5PF United Kingdom

Telephone: +44 (0)23 9266 2251 Facsimile: +44 (0)23 9267 3690

E-mail: [info@portav.co.uk](mailto:info@portav.co.uk)

[www.portav.co.uk](http://www.portav.co.uk)