

Environmental Data Loggers

Data loggers play a vital role in monitoring and recording the environmental conditions experienced by a wide range of products. They are suitable for use in any application that requires regular reporting or constant observation data.



Portsmouth Aviation data loggers are currently employed in monitoring a variety of MoD munitions, both in the UK and on deployed operations. They are also utilised in many commercial and domestic applications; including agriculture, medical, food and heritage conservation applications

Portsmouth Aviation is partnered with Gemini Data Loggers – the market leader in the creation and provision of data logging solutions. This partnership gives our customers access to the complementary skills and creative ideas of each company; allowing us to offer versatile industry-leading data logging solutions to satisfy all requirements.

Our data logging products are designed, manufactured and certified to be Intrinsically Safe and compliant with ATEX regulations for hazardous environments.

Our standard products include:

- OME Defender – Intrinsically Safe/ATEX approved. Qualified to Def Stan 00-35 and environmentally tested for Air, Sea and Rail Transportation. This product merges existing Tinytag™ knowledge with Infra Red data transfer technology, suitable for in-situ data downloading.
- Intrinsically safe/ ATEX approved temperature and/ or humidity loggers with or without remote probes for use in hazardous and potentially explosive environments.
- Non-Intrinsically Safe loggers for use in the monitoring of electronic equipment and medical and pharmaceutical products.
 - Vibration and shock loggers to record the handling conditions experienced during transportation.

Data Loggers for use with Ordnance Munitions and Explosives (OMEs)

Our Data Loggers monitor and record the environmental conditions experienced by the munitions throughout their transport and storage life. Exposure to such extremes can cause both chemical and physical degradation, so knowledge of the conditions experienced is essential in maintaining the safety and integrity of the munitions. Conversely, evidence to show that a munition has experienced only benign conditions can support potential Service life extensions and reduce Whole Life Costs.

Data Support and Handling

In addition to the data loggers, we are able to provide a tailored support package to include data capture, translation and analysis and a data logger maintenance and calibration service. This support work can complement and enhance ongoing surveillance programmes

Additional Capabilities & Benefits:

We are able to provide bespoke logger packaging for specific munitions' applications with the capability of measuring and downloading temperature and humidity data remotely from sealed into munitions containers. This enables efficient monitoring of the stores without the need to disrupt the munitions container and associated store during transit or storage operations. Results of temperature evidence provided by data loggers in recent military operations have prevented the in-theatre disposal of stocks and resulted in significant cost savings.

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