

Tinytag Defence

APPLICATION & PRODUCT GUIDE

Tinytag® Data Loggers

GATHERING QUALITY DATA
Defence

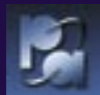
*Gemini Data Loggers (UK) Ltd in collaboration with
Portsmouth Aviation Ltd offers Environmental Data Logging solutions
to Munitions Whole Life Assessments*



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Tinytag Defence

data collection & retrieval » temperature » humidity » shock » vibration » count » voltage » current



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Tinytag Environmental Data Loggers (EDLs) are in current use monitoring environmental conditions that can cause premature failure of Ordnance, Munitions and Explosives (OME). Tinytag loggers are rugged, waterproof, battery operated devices having various reading capacities and capabilities to meet a wide range of data logging requirements. Monitoring using Tinytags provides warning of abnormal environmental exposure and allows prediction of possible failure modes. Temperature, Humidity, Pressure, Shock and Vibration can be recorded simultaneously during transport and storage to provide the Range Manager with comprehensive data that can be used to determine future life, safety and reliability. This data also allows the user to make reasoned decisions aimed at reducing the financial, environmental and logistic costs of upkeep, repair or disposal.

Tinytag Plus IS Loggers are provided with full ATEX - hazardous zone compliance - and can play a critical role in the maintenance of continued OME safety. These loggers can be supplied with UKAS traceable calibration certificates for validation purposes.

Install Tinytag Explorer software and connect data loggers to PC

Place Data Logger in position to record and connect probe if required

Connect Data Logger to PC, download and display the data

EXPLOSIVE STORAGE BUILDING

Using Tinytag Plus Intrinsicly Safe EDLs, the localised environmental conditions experienced within Explosive Storage Buildings can be accurately monitored and records maintained for future analysis.

Tinytag Plus Intrinsicly Safe EDLs

Robust and ATEX rated these self contained, battery operated loggers record temperature and humidity.

The units are available with built in sensors and with external probes for use in difficult to reach areas or when fast response is required.

FIELD CATERING

Tinyview Plus EDLs

Tinyview Plus has a digital display for instant temperature and humidity checks.

Manufactured from food grade materials models include a stab probe unit that can be used to measure the core temperature of a product and are ideal for monitoring foodstuffs in transit and field storage conditions.

WEAPON CONTAINERS

For specific weapons, Tinytag Plus Intrinsicly Safe EDLs, can be fitted within the weapon container to provide accurate environmental data whilst the item is in storage and during transport. Bespoke monitoring solutions are possible.

Tinytag Plus EDLs

These robust and waterproof loggers have a wide range of sensors and large memories for long term monitoring. Simple to use these units are ideal for large number of arduous applications.

The Tinytag Plus range includes loggers that can monitor exposure to shock and vibration during transport as well as measuring temperature, humidity and the condition of batteries.

OPEN STACK

Tinytag Plus Intrinsicly Safe EDLs can be deployed to monitor OME stored in the open. Munitions held in Explosive Storage Areas, Operational Rearm Points or held forward at the Front Line can be provided with logging solutions to record the environmental exposure.

Tinytag Plus Intrinsicly Safe EDLs

These robust, self contained and battery operated Intrinsicly Safe loggers are used for monitoring temperature and humidity in OME storage.

These ATEX rated loggers play a safely role in the harshest of environments.

Tinytag Plus IS units are fully waterproof and can be used for monitoring outdoors or in extremely damp or dusty areas.

BESPOKE MONITORING AND COTS SOLUTIONS FOR WHOLE LIFE ASSESSMENTS

Prototype Loggers for UK MoD

In collaboration with Portsmouth Aviation, Gemini Data Loggers are now researching solutions to the impact of environmental exposure on OME and to perfect future data loggers that will provide 'real-time' data on OME environmental conditions that will be available across the Globe.

Wireless Multi-Channel Data Logger

Wireless data loggers use a revolutionary self-configuring mesh network to send 'real time' information to a central point. Each unit can be configured to monitor a variety of conditions. A typical network could comprise 100 loggers providing continuous data flow as it is recorded.

TINYTAG EXPLORER SOFTWARE

Tinytag Explorer is Windows® based and user friendly with simple steps to download and display accurate data clearly as graphs and tables. Data can also be exported in standard formats to other applications such as Excel.

