

STANDALONE DATA ACQUISITION SYSTEM OFFERS SECURE OPERATION

RECORD DATA ANYWHERE, INDEPENDENT OF A PC



Do you need to record environmental data in the field, away from PC support? Are power outages a concern? At CAS DataLoggers, many of our customers call in requesting a standalone data acquisition system which can simultaneously collect data from two or more different kinds of input sensors. Whether your project involves environmental data collection, industrial process monitoring, or another application, [Delphin Expert Series](#) devices are both flexible and secure solutions.

MULTI-VALUE DATA COLLECTION

Delphin's versatile [Expert Logger Series](#) offers data loggers for virtually any industry or application. Expert Logger devices are capable of acquiring practically any type of analog input sensor including:

- Temperatures
- Voltages
- Currents
- Pressures
- Serial

Digital signal acquisition is also possible, such as from pulses or switches.

The Expert Logger family features analog input counts ranging from 16 to 46, with expansion modules also available. All Expert loggers have an aggregate sampling rate of 1000 Hz, featuring 24-bit A/D's for high resolution measurement and galvanic isolation for noise immunity and device protection.

Check out our [video](#) on the Expert Logger Family.

STANDALONE OPERATION

Delphin's Expert Logger family is a range of compact stand-alone data loggers useful for data logging applications requiring portability and versatility.

Expert Logger series data loggers operate in 'standalone' mode, i.e. independently without the need for PC support. They can securely maintain recorded measurement data in their internal data memory (up to 60 million readings), even in the event of a power failure.

Ideal for a wide variety of environmental and industrial applications, Expert Logger systems can optionally be outfitted with WiFi or cellular/LTE communications modules for remote applications.

After power is restored, Delphin devices automatically restart and continue data recording. Data memories can be read out via LAN. For process and lab applications, Expert Logger series devices can also perform monitoring and alarm functions.

APPLICATION FEATURES:

- Reliable solutions for independent and secure data recording
- Universal inputs suitable for connection with any type of sensor (e.g. mA, mV, RTD, thermocouples, etc.)
- Configuration is simple and easy to follow
- Intelligent processing via internal channels for calculation, statistical and limit value functions
- High-speed data evaluation via Delphin [ProfiSignal Software](#). Profisignal provides continuous online trend analysis of measured data with the ability to selectively record data.

CUSTOMER EXAMPLE: MOBILE WATER TREATMENT PLANT

Mobile water treatment units are widely used for relief and humanitarian aid projects in crisis regions around the world. Our customer has several of these units installed within trucks or trailers. Deployed alongside the units, Delphin data loggers continuously and independently record a range of vital process parameters such as temperatures, pressures, flows and error reports.

Meanwhile, water quality parameters (such as conductivity) continually undergo monitoring with onsite triggering of audible and visual alarms whenever user-set thresholds are exceeded. This ensures that the customer has ample time to take remedial measures and preserve water potability.

All this data is periodically evaluated at operational headquarters using a Delphin UMTS module. In the event of malfunctions, the onsite Delphin systems automatically send emails directly to the director's email.

TYPICAL AREAS OF APPLICATION:

- Traffic census reporting
- Solar panel data loggers
- Aircraft condition monitoring
- Temperature monitoring
- Meteorological data collection
- High-speed data loggers

EXPERIENCED SOLUTIONS PROVIDERS

CAS DataLoggers is a longtime distributor of German-based Delphin Technology and many other quality manufacturers. We can provide you with a customized monitoring system tailor-made for your specific application.

For more information on [Delphin Data Loggers](#), standalone data acquisition systems or to find the ideal solution for your application-specific needs, contact a CAS DataLogger Application Specialist at **(800) 956-4437** or www.DataLoggerInc.com.