

INTRODUCTION

AntiLog is the ideal way to record all your RS232 data without requiring PCs, laptops or hand held computers. This simple to use, high performance unit can log a single channel of serial port data as soon as you press the 'On' button! Push and hold the 'Off' button to stop logging. Repeat as many times as you like to append your data to the store – it's as simple as that.



Hold the 'On' button down until the LED lights green (just under 2 seconds) to put the unit in playback mode. Playback mode allows the recorded data to be replayed or uploaded to a PC, PDA, Laptop or other host machine of your choice. Data can even be played back in 'real time' to simulate your equipment output.

APPLICATIONS

- Recording GPS receiver output for civil or military trials on location.
- Ideal for use when data needs to be collected by non-technical staff.
- Reliable unattended data logging applications, e.g. process control, medical.
- Want to log all output from equipment in ASCII, binary or any other format.
- Listening in on an existing RS232 link, possibly to spot system design errors.
- Very fast operation required, e.g. full rate binary data at 460,800 baud with no gaps.
- Recording data from equipment that needs to be initialised or polled for readings.
- Trials where 'events' need to be logged with the data using operator button pushes.
- Installations requiring two hardware serial ports, one for record, one for playback.
- Ideal for applications that do not have a local source of power for logging.

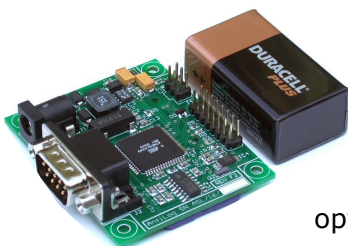
FLEXABILITY

AntiLog can record ALL RS232 data transmitted by your RS232 data sources. It does not suffer from data resolution problems experienced by other RS232 data logging solutions which attempt to convert the data before storing it. You can pre-select, sub sample, filter and time tag an incoming data stream. You can even transmit user defined commands back at equipment whilst recording either by pressing the front panel buttons or have AntiLog automatically send the command out at a user defined rate (ideal for taking measurements from equipment which requires data polling).

The built in Real Time Clock allows time tagging of logged data. A Military (M) option is available to add one touch recording of Military/Government GPS receivers (e.g. ICD-GPS-153). The bootloader, standard on all units, allows the embedded software to be upgraded to the latest release from plain text files which can be supplied over the Internet.

CONFIGURATION

You configure AntiLog for your needs using a serial port terminal program (e.g. Microsoft HyperTerminal). Use the intuitive menu system you see on the terminal screen in the playback mode to set your options. All settings are non-volatile, so there is no need to reprogram the unit even if all sources of power are removed.



AntiLog is also available as an OEM module to allow you to embed a high quality data logging solution into your own product. With the OEM design, you also have direct access to CMOS RS232 levels for direct connection to an OEM unit (such as an OEM GPS receiver). We also offer a version which does not require button pushing to start or stop a data logging session ('P' option). Instead, you simply apply or remove the power source.

ANTILOG V3.8 STANDARD FEATURE SUMMARY

All OEM and boxed AntiLog products are supplied with the following features as standard:-

General Features

- Cost effective, single channel, complete data logging solution in a single unit.
- Fully unattended operation possible including automatic power and log file shut down.
- Up to 4GByte non volatile storage supported.
- At least 48 hours of recording time possible from a single PP3 Alkaline battery
- Extended operation possible with long life PP3 Alkaline cells.
- Dynamic battery health check via menu system with terminal load voltage report.
- Dynamic power management saves power when using baud rates less than 115200.
- Can operate from an external DC power source in the range 4.5 to 18V.
- Dual serial port hardware which can significantly simplify system installation.
- Both serial ports available from front panel 9 way D connector using adapter cable.
- File system supports real time date and time tagging of session and event information.
- Media recovery feature for comprehensive data integrity.
- Real time clock hardware to allow date and time stamping of session and log data.
- OEM product allows access to CMOS 3V3 RS232 levels (secondary port only).
- Built in system 'bootloader' to allow embedded software upgrades via the serial port.

Recording Features

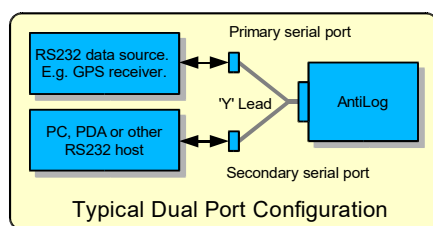
- Records ASCII, binary or any other data combination as standard.
- Can log 460,800 baud data at full rate (no handshaking required) with suitable media.
- Selected GPS NMEA sentences can be logged using the built in NMEA sentence filters.
- Intelligent data frame sub-sampling for ASCII line formatted data sources (e.g. NMEA).
- ASCII line data can be time tagged with millisecond resolution.
- User equipment commands can be sent at user defined rate (equipment polling).
- Can log time tagged 'On' and 'Off' button pushes as 'user events' during data logging.

Playback Features

- Full rate playback always available at any baud rate, regardless of rate used for record.
- 'Real time' playback to simulate equipment output (even at different baud rates).
- Playback can be synchronised to external event input (wait on hardware pulse).
- Hexadecimal playback mode to display recorded data as a ASCII hexadecimal dump.
- Selectable RTS/CTS handshaking for playback (single serial port mode only).
- Session headers and time stamp date and time can be embedded into output stream.
- Data can be uploaded to a host using standard X-Modem terminal protocol.

Configuration Features

- Independently programmable transmit and receive baud rates from 110 to 460,800.
- User selectable parity, data bits per character (5 to 8) and stop bits (1 or 2).
- Non standard baud rate support (e.g. 11111 baud).
- Time transfer function to accurately transfer time and date to another AntiLog unit.



----- *Anticyclone Systems Limited* -----

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TAILOR MADE OPTIONS

AntiLog V3.8 provides a comprehensive set of features as standard but additional 'Option Packs' available from your AntiLog supplier extend the capabilities still further. Hardware options are generally only available from your AntiLog supplier but software options can be installed after purchase using the built in bootloader application.



Hardware Option 'P': Forced Power (OEM only)

- Starts recording data in a new session as soon as power is applied.
- Closes a session and stops recording when power is removed.
- No requirement to push the 'On' and 'Off' buttons to control unit power.
- Power may be removed and reapplied at any time to append more sessions to the store.
- 'On' and 'Off' buttons still function to record events and transmit equipment commands.
- Suitable for power sources in the range 10V to 18V (e.g. automotive applications).
- Support for up to two sources of power. If one fails, the other can take over.
- Ideal for use in systems where access to the unit is limited (in UAVs, Buoys, etc.)

Software Option 'M': Government and Military GPS receiver logging

- Includes all standard features available in AntiLog.
- ICD-GPS-150, ICD-GPS-153 (ICD-GPS-15x) data stream compatible.
- Message 'autoconnect' feature to automatically request user selected message IDs.
- Automatically sends out acknowledgements in response to acknowledge requests.
- LED flashes show when checksum validated message headers are being recorded.
- Compatible with RS232 output from SPGR, PLGR, DAGR and similar GPS receivers.
- Selectable 'Real time' playback of ICD-GPS-15x data.

Software Option 'D': Force Dual Port Operation

- Forces dual port configuration when factory defaults are applied instead of single port.

Software Option 'L': Menu Baud Rate Lock

- Prevents a baud rate reset using the 'On' button at start up if settings lock is active.

Software Option 'X': Extended 'On' button Playback delay

- 'On' button delay required to activate playback mode extended from 1.75 to 5 seconds.
- Reduces chance of inexperienced users accidentally starting AntiLog in playback mode.

**DON'T RISK LOSING YOUR IMPORTANT
SERIAL PORT DATA!**

For more information please visit www.anticyclone.co.uk or email Geoff at info@anticyclone.co.uk

Detail may be subject to change without notice. Data applicable to AntiLog boxed and OEM products with embedded software release 3.8

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