

## GL500 Multichannel Datalogger



- Four sample modes: 10 times per second, interval, logarithmic, and exception
- Both USB and Serial communication ports
- Monitor up to 9 sensors at a time in addition to battery voltage
- Battery powered for remote locations
- Windows and PDA software included
- Accepts any 4-20mA or 0-5V (upon request) input
- Optional rugged, lockable, weather resistant enclosure

### Specifications

*Memory:* Non-volatile flash memory  
*Power:* Voltage: 7.2 VDC Min. to 24.0 VDC Absolute Max  
*Standby Current:* 70uA Typical  
*Logging Current:* 5mA Typical + sensor current  
*Analog Sensor Inputs:* 4-20mA (0-5VDC as factory option)  
*Resolution:* 12-Bit, 4096 Steps  
*Channels:* 7 Input channels + battery voltage monitor  
*Sensor Warm-up Time:* Programmable, 0-15 Sec  
*Digital Inputs:* 2 Independent pulse counters  
*Maximum Input Voltage:* 24VDC  
*Maximum Frequency:* 100Hz  
*Minimum Pulse Width:* 2mS  
*Maximum Count:* 65,535 (16-Bit)  
*Sample Now Input:* Sample-on-Demand input, software enabled  
*Maximum Input Voltage:* 24VDC  
*Minimum Pulse Width:* 2mS  
*Sample Modes:* Fixed Interval Programmable from 1 Sec. to >1 Year  
 High Speed 10 Samples per second  
 Logarithmic Sample Rate (Approximation)  
 Exception (Log only on deviation from previous reading)  
*Storage Capacity:* 40,879 Recordings for all inputs plus time stamp  
*Data Overwrite:* Select memory wrap or unwrap (unwrap will stop logging data once memory is full)  
*Communication Ports:* RS-232 DB9 or USB Type B  
*Selectable Baud Rates:* 9600, 19200, 28800, 38400, 57600, and 115200  
*Clock:* Synchronizes to the time and date of user's computer  
*Operating Temperature:* Industrial, -40°C to +85°C (Battery may not apply)  
*Enclosure:* Polycarbonate (6.3" x 3.2" x 2.2"), Nema 4X  
*Weight:* 11 oz or 3.5 lbs (with weather-proof enclosure)

### Description

The GL500, Global multichannel datalogger features 7 analog channels and 2 digital channels for data recording. The GL500 can record over 40,000 readings and has four unique recording options, fast (10 samples per second), programmable interval (1 second to multiple years), logarithmic, and exception. The datalogger also has a sample on demand input that triggers a recording of special events, such as when a water sampler was triggered, when a door was opened, etc. Daily start and stop alarm times can be programmed to limit recording intervals during a day. The GL500 includes Windows and PDA software, allowing easy upload of data to a laptop, desktop, or PDA for transfer to a spreadsheet program.

The Global data logger is setup to accept any 4-20 mA sensor. The GL500 provides switched power to the sensors based on the sample interval and sensor warm up time settings. 2-wire and 3-wire sensors can be quickly connected to the datalogger's terminal strip and calibrated via the Global datalogger software. Your sensors can be accessed through dial-out to a remote modem attached to the GL500's serial communication port. The datalogger software has online help files that are easily accessed using drop down menus and links to quickly find the answers to your questions.

The data recorder has an optional rugged, lockable and weather-resistant enclosure that can easily be hidden, bolted to a post, or secured inside an additional container for added protection from the elements, animals or vandals. A 12VDC rechargeable battery and battery charger comes with this option.

*NOTE: 64 bit operating systems are not currently supported.*

### Options and Accessories

**GL500 9 channel datalogger**

**GL450-7-1**  
 Weather Proof Environmental Enclosure



**SP102 Solar Panel** (5 watts, 300mA min)

- Contact Global Water for all your instrumentation needs:
- Water Level
- Water Flow
- Water Samplers
- Water Quality
- Weather
- Remote Monitoring
- Control