

# GL500-2-1 Global Logger

Three Channel Datalogger for Data Recording



## Description

The GL500-2-1 Global Logger features two analog channels and one digital channel for recording data. The datalogger records over 81,000 readings and has four unique recording options: fast (10 samples per second), programmable interval (1 second to multiple years), logarithmic, and exception. Start and stop alarm times can be programmed to synchronize multiple loggers, delay sampling until a preset time, or limit the number of recordings during a day. The GL500U-2-1 USB model is great for direct connection to your laptop or desktop PC. The GL500S-2-1 serial (RS-232) model is best for communication via modem or CE-based PDA.

## Powerful Monitoring

The GL500-2-1 can monitor two 4-20 mA sensors (0-5 volt inputs are available as a factory option) and features a scalable digital input that accepts switch closure signals and pulses from various external devices. The logger provides switched power to the sensors based on the programmable sample interval and sensor warm up time settings. Two- and three-wire sensors can be quickly connected to the datalogger's internal terminal strip and calibrated via the included Global Logger II software. The GL500S-2-1 can be accessed through dial-out to an optional remote modem (GL500-Mod) attached to the serial communication port.

## Smart Software

The GL500-2-1 includes Global Logger II Windows™ and Windows™-CE PDA software, which allow for easy setup, calibration, upload, and transfer to a spreadsheet program.

NOTE: 64 bit operating systems are not currently supported.

## Specifications

Power	Two 9VDC alkaline batteries standard. 8 VDC min. to 24.0 VDC absolute max. Standby Current: 65µA typical Logging Current: 5mA typical plus sensor current
Operating Temperature	Industrial, -40°C to +85°C (batteries may not apply)
Analog Inputs	4-20 mA, 0-5VDC inputs as a factory option Resolution: 12-bit, 4096 steps 2 channels + battery monitor Sensor warm-up time: 0 to 15 sec.
Digital Input	Switch closure or pulse input Maximum Count: 65,535 (16-bit) Maximum Input Voltage: 24VDC Maximum Frequency: 100Hz Minimum Pulse Width: 2mS
Sample Modes	Fixed Interval: Programmable from 1 sec. to >1 year High Speed: 10 samples/sec. Logarithmic Sample Rate: Approximation Exception: Log only on programmable deviation from previous reading
Storage Capacity	81,759 recordings of all inputs plus time stamp
Communication Port	GL500S-2-1: RS-232 4-pin circular connector GL500U-2-1: USB Type B Selectable Baud Rates: 9600, 19200, 28800, 38400, 57600, 115200
Clock	Synchronizes to user's computer
Data Overwrite	Select memory wrap or unwrap
Operating Temperature	-40°C to +85°C (battery may not apply)
Software	See for GL500-7-2.
Dimensions	3 x 3 x 3" (7.6 x 7.6 x 7.6 cm)
Weight	0.5 lb (227 g)

## Features

- Rugged and easy to use
- Records over 81,000 readings
- Accepts any 4-20 mA signal
- Battery-powered for remote monitoring
- User friendly Windows™ and Windows™ CE-based PDA software included

## Applications



Ideal for monitoring a variety of environmental parameters, including water level, flow rate and total flow, rain level, weather conditions, and water quality.

## Ordering & Options

### Global Loggers

Order No.	Communication Port
GL500U-2-1	USB
GL500S-2-1	RS-232 Serial

### Accessories

Order No.	Description
GL450-2-1	Weatherproof Enclosure <sup>1</sup>
PDAWL16	Deluxe PDA Package
GL500-Mod	Modem Package <sup>2</sup>

1) Additional batteries not included.

2) Compatible only with GL500S-2-1 serial version.



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