

GRAPHTEC

GL200 midi LOGGER Handheld 10 Channel Logger



midi LOGGER GL200

World's Smallest in its Class

10 Multi-function Isolated Input Channels

PhotoMOS isolated inputs ensures incoming signals are not affected by cross channel interference, and eliminates the need for special test lead wiring. The GL200 Multi-function Logger accepts voltage, temperature, humidity, pulse and logic signals. Capture data sets in any combination, even for generally disparate parameters such as temperature, humidity and voltage.

Measurement Range

Voltage	20 mV to 50 V, 1-5 V
Temperature	K, E, J, T, N, R, S, B, W Thermo-couplers
Humidity	0 to 100%

Bundled PC Software

The GL200 includes a Windows application for direct data capture, measurement and monitoring of the GL200. In addition to waveform and data value capture and display, the application can export data to an Excel file template for further analysis and report creation. The software includes built-in help for quick reference on functions and settings.

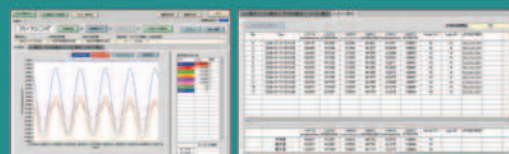
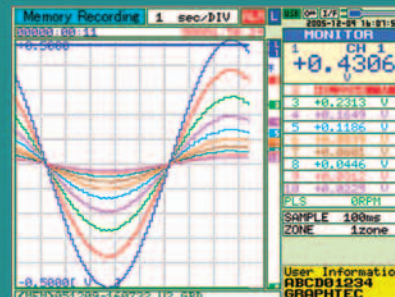
Accepts up to 1GB USB Memory Connects to PC for control and data capture or transfers

Use up to 1GB USB Memory sticks in the Type A port for direct data capture. For example: 512MB memory can store nearly 270 days of data from 10 channels @ 1 second sampling.

Connect the GL200 from the USB Type B port to a PC for control and nearly unlimited data capture and analysis.

Vivid 3.5 inch TFT Color LCD

A bright 3.5 inch TFT Color LCD Display presents waveforms and data values with sharp detail and easy-to-read screens.



GL200 Main Unit Specifications

Parameter		Specification
Analog Inputs		10 Channels
Input method		PhotoMOS Relay scanning system, Isolated Inputs
Measurement range	Voltage Temperature Humidity	20, 50, 100, 500 mV 1, 2, 5, 10, 20, 50 V; 1-5 V F.S. Thermo-couplers: K, J, E, T, R, S, B, N, W (WRe5-26) 0 to 100% (Voltage 0V to 1V scaling conversion) *Accuracy (see B-530 in the Options section)
Filter		Off, 2, 5, 10, 20, 40 Filter operation is on a moving average basis. The average value of the set sampling count is used.
Scan speed		0.1s/10 ch maximum
Trigger Functions	Repeat Trigger Trigger types Trigger conditions	Off, On • Start: Data capture starts when a trigger is generated. • Stop: Data capture stops when a trigger is generated. • Start: Off, Level, Ext., Date • Stop: Off, Level, Ext., Date, Time Alarm judgment modes Analog: H, L, Window In, Window Out • Logic: H, L • Pulse: H, L, Window In, Window Out
Alarm out put	Output format Output conditions	Open collector output (100 k pull-up resistance) Level judgment, window judgment, logic pattern judgment, pulse judgment
Pulse and Logic Inputs		1 Channel each
Pulse input	Revolutions mode Counts mode Inst. mode Maximum Pulse inputs	Spans: 50, 500, 5000, 50 k, 500 k, 5 M, 50 M, 500 M RPM/F.S. Spans: 50, 500, 5000, 50 k, 500 k, 5 M, 50 M, 500 M C/F.S. Spans: 50, 500, 5000, 50 k, 500 k, 5 M, 50 M, 500 M C/F.S. Counts, Inst. modes: 50 k/sampling interval • Revolutions: 50 k/s
PC interface		USB 1.1
Memory	Capacity Memory content	• Internal memory: 3.5 MB • USB memory: up to 1GB USB 1.1 12Mb/s • Setup conditions • Measured data • Screen recall
Statistical calculations	Types of operations Number of operations Method	Values: Average, Peak, Minimum, Maximum, RMS 2 can be set simultaneously Realtime operation <i>Note: When the Digital screen + Calculation Display screen has been specified, the calculation results are displayed.</i>
Search functions		Search captured data for specified points
Scaling function		4 points can be set for each channel
Display		3.5 inch TFT Color LCD (320 x 240 pixels)
Display screen	Waveform display Digital display	Waveform screen + Digital screen, Waveform screen Waveform screen + Digital screen, Digital screen + Calculation Display screen
A/D converter		16 bit (14 bit processing)
Maximum Input Voltage		60 Vp-p Between +/- terminals, Input to chassis ground
Input Resistance		1 M 5%
Withstand Voltage		1 minute at 350 Vp-p Channel to Channel, Channel to chassis ground
Operating Environment		0 to 40°C, 30 to 80% RH
Power Supply	AC adapter DC input*1 Battery pack*1	100 to 240 VAC, 50/60 Hz 8.5 to 24 VDC 7.4 VDC (2200 mAh) *1 Optional
Power consumption		AC Adapter, 28VA or less
External dimensions		7.64 x 4.8 x 1.61 inches (194 x 122 x 41mm)
Weight Excluding the AC adapter and battery		17 Ounces (480g)

midi LOGGER Software Specifications - PC Requirements

CPU	Pentium 4 (1.7 GHz or faster recommended)
Memory	Minimum 512 MB (1 GB recommended)
Operating System	Windows 2000/XP
Functions	Device control, real-time data capture, file format conversion
Device setting ranges	Input settings, memory settings, alarm settings, trigger settings
Captured data	Real-time transfer to PC, transfer from GL200 internal memory to PC
Items displayed	Analog waveforms, logic waveforms, pulse waveforms, digital values
Display modes	Digital values, waveforms (Y-T, X-Y), meter view, report view
Monitoring function	E-mail sent to specified e-mail address(es) when an alarm is generated.
File format conversion	Conversion of selection or all data exported to CSV file format
Direct Export to Excel file	Data can be saved to an Excel file (at 1 second sampling rate)
Statistics/Log Display	Display Minimum, Maximum and Average values during measurement and generate a log of any alarms issued

Optional Accessories

Item	Model	Description	
DC power cable	B-514	to Bare Leads (2m)	
Battery pack	B-517	Run time	Continuous LCD display: up to 5 hours Using LCD screensaver: up to 6 hours
		<i>Note: Capturing to internal memory at 1 second sampling Run time may vary depending on operating environment temperature, optimum battery charging and internal or USB memory usage</i>	
Humidity sensor	B-530	Temperature range Humidity range External dimensions Cable length	-13°F ~ 176°F (-25 ~ +80°C) 0 to 100% RH ø14 mm x 80 mm (excluding cable) 3 m

Internal Memory - Power Fault Tolerant data retention

The internal memory automatically buffers and saves captured data, even if there is a power failure. Momentary power interruptions or accidentally switching off the power will not result in data loss.

Data Capture Memory Capacity (10 channels sampled. Pulse & Logic off)

	Sampling Interval	100 ms	200 ms	500 ms	1 s	10 s
3.5 MB Internal Memory		3.9 Hours	7.8 Hours	19 Hours	1.6 Days	16 Days
256 MB USB Memory		13 Days	26 Days	65 Days	130 Days	1300 Days

Up to 6 hours run time continuous operation

Use the rechargeable battery pack for up to 6 hours of portable operation and continuous measurement, depending on conditions. Remaining battery capacity is displayed on screen. The battery also functions as a built-in Uninterruptible Power Supply for fault tolerant performance in the event of external AC or DC power supply interruptions.

Simple Operation

The GL200 has a cluster of navigation and control buttons and a logical menu setup so parameters can be set individually for each channel. Navigation assistance simplifies setup and usability.

M3-screw terminal block

The M3-screw terminal block provides secure wiring connections using either ring or open spade lug connectors.

Related LOGGERS

GL450 midi LOGGER



100 ms sampling intervals
Voltage, Temperature, Humidity
Pulse and Logic Inputs
Expandable up to 100 Channels

GL500A midi LOGGER dual



500 kS/s sampling
high-speed measurement
Voltage, Temperature
Pulse and Logic inputs
Expandable up to 16 channels

GRAPHTEC
GRAPHTEC AMERICA, INC.

Dedicated to the Americas – North, Central & South
Graphtec America, Inc.
1251 East Dyer Road Suite 110
Santa Ana CA 92705 USA
Toll-Free (800) 854-8385
Phone (949) 770-6010
Fax (949) 855-0895
E-mail inst.sales@graphtecamerica.com
Website www.graphtecinstruments.com

