Handy type 10-channel logger

It's my LOGGER

NEW

midi LOGGER GL200

10 isolated channels, multifunction input

The isolated input system ensures that none of the channels is affected by different signals input to the other channels and eliminates the need to pay special attention to wiring. The multifunction GL200 device accepts input of voltage, temperature, humidity, pulse and logic signals. This allows combined measurements, even for disparate phenomena such as temperature/humidity and voltage.

Measurement ranges

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

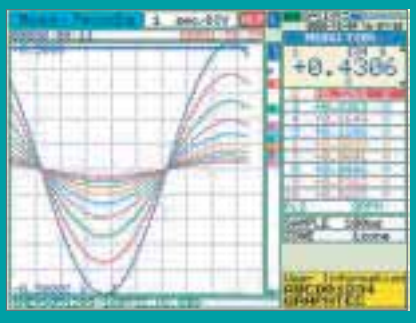
Accepts USB memory devices of up to 1 GB capacity and allows easy connection to PCs

Two ports are provided, one for the USB memory device and one for linking to a PC. Commercially-available USB memory devices may be used for direct capture of data. With a 512-MB USB memory device, users can capture data for up to approximately 269 days *1. In addition, connecting the GL200 to a PC via the USB cable allows measurements to be made from the PC.

*1 10 channels, 1-s sampling rate

Vivid 3.5-inch TFT color LCD

The bright, easy-to-read 3.5-inch TFT color LCD monitor makes it even easier to review measurement parameter settings, measured waveforms, and digital values.



Bundled PC software

The product is bundled with PC application software that enables measurements with the GL200 from a PC. In addition to waveform monitoring, this software provides other useful functions such as direct writing of data to an Excel file and report creation. The software also provides a Help display function for enhanced usability.

One data logger per person: the new GL200 model features an exceptional cost/performance ratio.

Built-in flash memory for reliable measurements

The flash memory used for the built-in memory device ensures that data is retained even if the power supply is interrupted. This means momentary disruptions in the AC power supply or accidentally switching off power will not result in data loss.

Data capture times (at the time of 10ch measurement, pulse & logic off)

Capture interval (sampling intervals)	100 ms	200 ms	500 ms	1 s	10 s
3.5-MB built-in flash memory	Approx. 3.9 hours	Approx. 7.8 hours	Approx. 19 hours	Approx. 1.6 days	Approx. 16 days
256-MB USB memory device	Approx. 13 days	Approx. 26 days	Approx. 65 days	Approx. 130 days	Approx. 1300 days

6 hours of continuous battery operations*1

A convenient optional battery pack is available for use in areas where AC power is unavailable or subject to interruption. The battery pack enables 6 hours*1 of continuous measurement and provides a remaining battery capacity display function.

*1 Varies with measurement conditions.

M3-screw terminal block

The M3-screw terminal block used for the input section provides no-fuss connections and easy, secure wiring. Both round and open-ended terminals can be connected.

User-friendly design

The GL200 incorporates features such as the ability to set measurement parameters for each item separately and navigation assistance to provide superior operability. The device case features stylish non-slip rubber.

GL200 Main Unit Specifications

Item		Details
Number of analog input		10 channels
Input method		Photo MOS relay scanning system; all channels isolated
Measurement ranges	Voltage Temperature Humidity	20, 50, 100, 500 mV; 1, 2, 5, 10, 20, 50 V; 1-5 V F.S. Thermocouples: 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 Alarm judgment modes	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 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 kΩ pull-up resistance) Level judgment, window judgment, logic pattern judgment, pulse judgment
Pulse / Logic input		Pulse input:1ch / Logic input:1ch
Pulse input	Revolutions mode Counts mode Inst. mode Maximum number of 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 (Ver. 1.1)
Internal memory devices	Memory capacity Memory contents	• Internal memory: 3.5 MB • USB memory: Depends on the type of memory used • Setup conditions • Measured data • Screen copy
Statistical calculation	Types of operation Number of operations Method	Average value, peak value, maximum value, minimum value, RMS 2 can be set simultaneously Realtime operation *Note: When the Digital screen + Calculation Display screen has been specified, the calculation results are displayed.*
Search functions		Search the captured data for the required number of points
Scaling function		4 points can be set for each channel
Display		3.5-inch TFT color LCD (320 x 240 dots)
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 bits (out of which 14 are internally acknowledged)
Maximum permissible input voltage		Between +/- terminals: 60 Vp-p • Between input terminals and casing: 60 Vp-p
Input resistance		1 MΩ ±5%
Withstand voltage		Between each input channel and main unit chassis, and also between each CHs: 1 minute at 350 Vp-p
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)
Power consumption		28VA or lower(AC drive)
External dimensions		194 x 122 x 41 mm
Weight*2		480 g

midi LOGGER software Specifications

CPU	Pentium 4 (1.7 GHz or better)
Memory	Minimum of 512 MB (1 GB recommended)
Compatible OS	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 of data to PC, transfer of data captured to internal device memory
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 is sent to the specified e-mail address(es) when an alarm is generated.
File format conversion	Conversion of selected or all data into CSV file format
Export to direct Excel file	Data is saved to an Excel file at the maximum 1-s sampling rate
Statistics/Log Display	Displays maximum, minimum, and average values during measurement and generates a log of alarms issued, if any

Optional Accessories

Item	Model NO	Description	
DC power cable	B-514	Bare tips (2m)	
Battery pack	B-517	Running time	When using the LCD display: approx. 5 hours When using the screensaver: approx. 6 hours
		Note: When capturing to internal memory at 1 s, sampling *Note: The running time depends on such as the operating environment, the amount of charge left in the battery and connecting USB memory.*	
Humidity sensor	B-530	Allowable temperature range Allowable humidity range External dimensions Cable length	-25 to +80˚C 0 to 100% RH ø14 mm x 80 mm (excluding cable) 3 m

*1 Optional *2 Excluding the AC adapter and battery

500 kS/s sampling for high-speed measurement
Voltage, temperature, pulse, and logic inputs
Can be expanded to accommodate up to 16 channels

midi LOGGER dual
GL500A

100-ms sampling intervals
Temperature, humidity, voltage, pulse, and logic inputs
Can be expanded to accommodate up to 100 channels

midi LOGGER
GL450

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