GL200A main uni Item			Description				
Number of input channels			Analog : 10 ch, Pulse *1 : 1 ch, Logic *1 :	1 ch			
Analog input terminal sha			Screw terminal				
Sampling interval	po		10 ms to 1 h (10 ms to 50 ms are for volt	ana maasuramant only			
Sampling interval			there is a limit to the number of channels				
Measurement method			Scanning method	<i>יו</i>			
			÷	50 V 4 5 V / 5 0			
Measurement range	Voltage		20, 50, 100, 200, 500 mV, 1, 2, 5, 10, 20				
	Temperature Humidity		Thermocouple : K, J, T, R, S, B, N, W (W				
			0 to 100 % (when using optional humidi	ty sensor, 0-1 V scaling			
			conversion is used)				
Filter			Off, 2, 5, 10, 20, 40 (Moving average with	n following values isdon			
Measurement accuracy	Voltage		0.1 % of F.S.				
23°C±5°C)	Temperature	Thermo couple					
When 30 minutes		R/S	0 ≤ TS ≤ 100	±5.2°C			
or more have elapsed			100 < TS ≤ 300	±3.0°C			
switched on			R:300 < TS ≤ 1600	±(0.05% of rdg +2.0°C			
			S: $300 < TS \le 1760$	±(0.05% of rdg +2.0°C			
		D	Reference contact compensation accuracy : ±0.5°C	0.500			
		В	400 ≤ TS ≤ 600 600 < TS ≤ 1820	±3.5°C			
			Reference contact compensation accuracy : ±0.5°C	±(0.05% of rdg +2.0°C			
		К		1/0.05% of rdg 10.0%			
		n	-200 ≤ TS ≤ -100 -100 < TS ≤ 1370	±(0.05% of rdg +2.0°C			
			-100 < 15 ≤ 1370 Reference contact compensation accuracy : ±0.5°C	±(0.05% of rdg +1.0°C			
		E	-200 ≤ TS ≤ -100	±(0.05% of rdg +2.0°C			
		-	-100 ≤ TS ≤ 800	±(0.05% of rdg +1.0°C			
			Reference contact compensation accuracy : ±0.5°C				
		т	-200 ≤ T ≤ -100	±(0.1% of rdg +1.5°C)			
			-200 ≤ 1 ≤ 100 -100 < TS ≤ 400	±(0.1% of rdg +0.5°C)			
			Reference contact compensation accuracy : ±0.5°C	(
		J	-200 ≤ TS ≤ -100	±2.7°C			
			-100 < TS ≤ 100	±1.7°C			
			100 < TS ≤ 1100	±(0.05% of rdg +1.0°C			
			Reference contact compensation accuracy : ±0.5°C				
		N	0 ≤ TS ≤ 1300	±(0.1% of rdg +1.0°C)			
			Reference contact compensation accuracy : ±0.5°C				
		W	0 ≤ TS ≤ 2315	±(0.1% of rdg +1.5°C)			
			Reference contact compensation accuracy : ±0.5°C				
Reference contact compensation			Internal/External switching				
/D converter			16 bits (out of which 14 are internally acknowledged)				
Frigger Functions	Trigger types		Start: Data capture starts when a trigger is generated.				
			Stop: Data capture stops when a trigger is generated.				
	Trigger co	nditions	Start: Off, Level *2, External, Time	0			
	554 44		Stop: Off, Level *2, External, Time, Specified period of time				
Alarm functions	Type Condition*2		Analog, Logic or Pulse; OR logic				
			Analog: Rising, Falling, Window In, Wind	low Ou			
	Condition	-	Pulse: Rising, Falling, Window In, Window Out				
			Logic: Rising, Falling				
	Quart and a		Displays a count of the number of pulses for each sampling				
Pulse input mode	Count mode			s for each sampling			
			interval from the start of measurement Counts the number of pulses for each sampling interval. Resets				
	Inst mode						
	DDM		the count value after each sampling interval.				
	RPM mode		Counts the number of pulses per second; enables them to be converted to rpms.				
	Count	to.	converted to rpms. 50 c, 500 c, 5000 c, 50 kc, 500 kc, 5 Mc, 50 Mc, 500 Mc				
Pulse input range	Count mode		50 c, 500 c, 5000 c, 50 kc, 500 kc, 5 Mc, 50 Mc, 500 Mc				
	Inst mode						
	RPM mode		50 rpm, 500 rpm, 5000 rpm, 50 krpm, 500 krpm,	5 Mrpm, 50 Mrpm, 500 Mrp			
Alarm output	Number of channels		1 ch				
	Output type		Open collector output (100 kΩ pull-up resistance)				
	Output conditions		Level judgment, window judgment, logic pattern judgment, pulse judgme				
External trigger input*1			1ch				
PC I/F			USB				
Data storage functions	Measureme	nt data	Direct capture to the internal flash memo	rv or USR memory etic			
sala olorago futioliono	Other	uutu	Setting parameters and screen copy date				
Memory devices	01101		÷				
,			GL200A internal flash memory (3.5 Mbytes), USB memory stick Statistical calculation: Average value, Peak value, Maximum				
Calculation functions			Statistical calculation: Average value, Pe value, Minimum value, RMS	ak value, iviaximum			
Soarob function				ation points in acatumated			
Search function	Appla	nol	Search for analog signal levels or alarm gener				
Search types	Analog sig	IIdl	Rising or falling with respect to the speci	lieu level			
	Alarm		Both, Rising, Falling	· · · ·			
Scaling conversion function			Input (upper and lower limits) and output	(upper and lower limits			
			can be set for each channel				
Display unit			Size: 3.5-inch TFT color LCD; Display in				
			digital values, waveforms only, digital val	ues only			
Aaximum permissible input voltage	9		Between +/- terminals: 60 Vp-p				
			Between input terminals and casing: 60				
Vithstand voltage			Between each input channel and main u				
			and also between each CHs: 1 minute at	t 350 Vp-p			
Operating environment			0 to 40°C, 30 to 80% RH				
Power supply			AC adapter: 100 to 240 VAC, 50/60 Hz				
			DC input: 8.5 to 24 VDC *3				
			Battery pack (option) *3				
			28 VA or lower (when the AC drive is used)				
Power consumption			20 VA OF IOWER (WHEIT THE AC UTIVE IS USE	iu)			
Power consumption External dimensions (W x	D x H) (apn	rox.)	194 x 122 x 41 mm	90)			

Control software specifications					
Item	Description				
CPU	Pentium 4, 1.7 GHz or more				
Memory	At least 512MB (1 GB recommended)				
Supported OS	Windows 2000, Windows XP, Windows Vista				
Functions	GL200A control, real-time data capture, file format conversion				
GL200A setting range	Input settings, memory settings, alarm settings, trigger settings				
Captured data	Real-time transfer to a PC, transfer of data from the GL200A' s internal memory				
Display information	Analog waveforms, logic waveforms, pulse waveforms, digital values				
Display modes	Digital values, waveforms				
Monitoring function	An email is sent to a specified email address when an alarm is generated				
File format conversion	Conversion of data between cursors or all data to the CSV format				
Direct to Excel	Saves sampling data up to 100 ms to an Excel file				
Maximum/minimum	Displays the maximum, minimum, and current values during measurement				

options and accessories		
Product name	Model name	Remarks
_ogic alarm cable	B-513	2 m
DC drive cable	B-514	2 m
Battery pack	B-517	1 piece
Humidity sensor*4	B-530	3 m
Rod-shaped K-type thermocouple	RIC-410	1.1 m
K-type thermocouple for static surfaces	RIC-420	1.1 m
-shaped K-type thermocouple for static surfaces	RIC-430	1.1 m

K-type thermocouple

DC drive cable (B-514)

Logic alarm cable (B-513) Battery pack (B-517) Rod-shaped K-type

thermocouple

(RIC-410)

*4 Operating temperature range: -25 to +80°C

for static surfaces (RIC-420)

L-shaped K-type thermocouple for static surfaces (RIC-430)

Humidity sensor (B-530)

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Specifications are subject to change without notice.

*2 The trigger condition operation is Level trigger. Measurement starts when the condition specified for the start of measurement is satisfied and the trigger is activated.

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Website

*3 The DC drive input cable and battery pack are optional.

Graphtec Corporation 503-10 Shinano-cho, Totsuka-ku, Yokohama 244-8503, Japan Tel:+81-45-825-6250 Fax:+81-45-825-6396 Email : webinfo@graphtec.co.jp

http://www.graphteccorp.com





ER030806 Vol.1

RoHS Compliant model

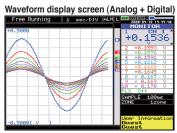


It's my LOGGER

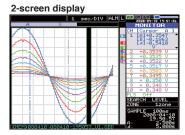
10-channel handy-type logger midi LOGGER **GL200A**

Vivid 3.5-inch TFT color LCD

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



This screen displays measured values as analog waveforms and digital values. The digital values for the selected channel are displayed in enlarged format for easy review A waveforms-only screen is also provided



This display format enables comparisons of waveforms for the current data against those for past data. (Y-T display only)

СН	ee Running VALUE	ALARM	LOGIC 🚥 Max	2008-04-10 14:50
1	-0.342	θu	+0.4001	-0.3658
2	-0.3423		+0.4000	-0.3660
з	-0.3423	3.0	+0.4006	-0.3672
4	-0.341	3.0	+0.4001	-0.3666
5	-0.340		+0.4000	-0.3613
6	-0.340	2 0	+0.4002	-0.3613
7	-0.340	1 v	+0.4002	-0.3611
8	- 0.33	θú	+ 0.400	- 0.361
9	- 0.33	3.0	+ 0.401	- 0.360
10	- 0.33		+ 0.400	- 0.361
PLS				

This screen displays measured values as digital values. Statistical calculation results can be displayed simultaneously.



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Uses M3 screw terminals

10 isolated channels,

Despite its small footprint, the GL200A offers an isolated input

system that ensures no channel is affected by different signals input

to other channels, eliminating wiring concerns. This multifunction

device accepts voltage, temperature, humidity, pulse, and logic

signal inputs and enables combined measurements, even of

Thermocouples: K, J, E, T, R, S, B, N, W (WRe5-26)

disparate phenomena like temperature/humidity and voltage.

0 to 100% (the B-530 option is required)

20 mV to 50 V

1 channel

channel

Count. Inst., Rpm

multifunction input

When measurements are complete, this screen lets the user search for points at which an alarm was generated or for user-specified values. This makes it especially easy to locate abnormal or other specific values

1 V Generated V

Prev. Search Next Search

Search Max Search Min

MaxiMin CHI V

Supports sampling speeds up to 10 ms

Provides faster sampling for voltage measurements. Reducing the number of channels allows faster data captures (up to 10 ms).



Sampling s	10ms	20ms	50ms	100ms	1s	
Number of usa	1	2	5	10	10	
Measurement	Voltage	٠	٠	•	٠	•
phenomenon	Temperature				٠	٠

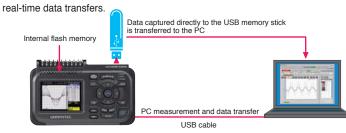
For humidity measurement, 0 to 1 voltage is converted to scale, the sampling is same as the voltage measurement

Accepts USB memory sticks and permits easy PC connections

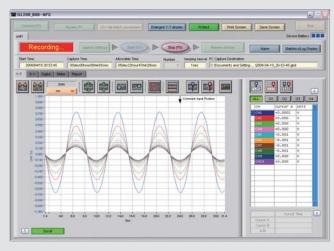
Data can be captured directly to a USB memory stick inserted into the GL200A's USB memory stick port. The data captured to the USB memory stick can be viewed in Excel on any PC connected to the GL200A. The simple USB cable connection between the PC and the GL200A enables PC control and setup of the GL200A, as well as



For the USB memory stick For connection to PC



Dedicated software for multi-channel measurement provided standard



Simple operations anyone can perform

Easy-to-use software that uses icon keys for intuitive operations

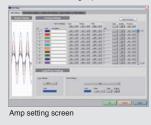


This function enables searching in the captured data for specific values or points at which an alarm was generated.

 CSV batch conversion function This function enables batch-conversion of multiple measurement files to CSV file format

Simple setup screens

The number of setup screens has been reduced to five. Settings are easily made while viewing input waveforms.



Wide selection of measurement screens

Six measurement screens are provided: Y-T, Y-T (Expanded), X-Y, Digital, Meter and Report. A built-in function enables measured values to be written directly to an Excel file. (Up to 100 ms sampling)



Up to 100 channels when a PC is used 76 Using the PC, 1 unit of PC can measure max. 100 ch, or up to 10 units can be connected.

*The data display and data file varies according to each unit

Marking the evolution of the GL200A to the one-datalogger-per-person stage



With ease of use similar to mobile phones, this user-friendly device permits one-thumb operation. Careful thought has gone into the configuration of the input and output terminals to optimize the GL200A for hand-held use. To further simply device setup, users can make range settings in the Amp setting screen while viewing waveforms.

MENU		AMP	DA.	TA	TRIG	USE	ER OTH	R	USB
		Makir	ng ana	log	and pu	lse	/logic	setting	as l
		CH :	Inp	ut	Rang	е	Filter	EU I	lisc.
\sim		ALL :	DC	v	1 Ū	v	Off		∇
$< \chi$		1:	_∿DC_	v	1 V	Υ.	Off	Off⊽	
<u> </u>		2:	_∿DC_	v	1 V	v.	Off	Off⊽	∇
<u> </u>		3:	_∿DC_	v	2 V	v.	Off	Off⊽	∇
		4:	_∿DC_	v	2 V	v.	Off	Off⊽	ববববববব
		5:	🛛 🚺 TEM	Ρv	TC-K	v.	Off	Off	∇
		6:	I TEM	Ρv	TC-K	v.	Off	Off	∇
	1	7:	🕴 TEM	IP 🔻	TC-K	Υ.	Off	Off	∇
		8:	🛛 🛿 TEM	IP 🔻	TC-K	Υ.	Off v	Off	∇
		9:	🛛 🛿 TEM	IP 🔻	TC-K	Υ.	Off v	Off	∇
		10:	🛛 🛿 TEM	IP 🔻	TC-K	Υ.	Off v	Off	∇
		Pulse	a: O	lff	Υ		_aFH ▼	Off 🗸	
		Logio	c: Off						
	Help? Selects the input. Make settings								
			that	mat	ch the	in	out type	э. Т	
1									
		L							

Setup screen

Checkpoint

Two different users - User 1 and User 2 - can enter settings. Setting parameters are saved to nemorv.

Long-term data capture and worry-free measurement

The built-in flash memory means data is retained even when the power supply is interrupted. For long-term measurement applications, simply replace the USB memory stick, even in mid-measurement. While the USB memory stick is being replaced, data for up to 5 minutes is captured to the GL200's backup memory. A file close operation is performed once a minute to ensure that measurement data is retained, even if the power supply is suddenly turned off

Example of 10-channel analog measurement

Capture interval (sampling speed)	10 ms*1	50 ms*2	100 ms	200 ms	500 ms	1 s	10 s
3.5 MB internal	Approx.	Approx.	Approx.	Approx.	Approx.	Approx.	Approx.
flash memory	20 min.	2 hrs.	4 hrs.	8 hrs.	20 hrs.	1.8 days	18 days
256 MB USB	Approx.	Approx.	Approx.	Approx.	Approx.	Approx.	Approx.
memory stick	1 day	6 days	13 days	26 days	65 days	130 days	1300 days

*1 Settable no. of channels is 1. *2 Settable no. of channels is 5.

Input signal waveform

Choice of Replay display screens

Select one of three Replay display screens: Y-T, X-Y and Digital Replay Digital display

