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### CAT III compatible High-Vollage and True-RMS Measurements

High-speed High-Voltage Isolated 4 channel Data Logger

## midi LOGGER HV GL2000

#### High speed 1 MS/s simultaneous sampling with voltage and temperature measurement



#### Safer input terminal

Isolated BNC and screw terminal for each channel



#### Available input signal cable

Isolated Banana BNC (High voltage) RIC-147 (1000 V DC. CAT II)



- \*1: Select either Pulse input or Logic input, and use the optional input/output cable for GL (B-513 option). \*2: Use with RIC-147.
- \*3: Max. rated safety voltage: ± 600 V DC or 600 V rms \*4.
- Numbers are approximate and under the following conditions. Using 4 channels of analog input only and data is saved as a GBD file. External memory device is set to SD flash memory card or USB flash memory with 8 GB or more data capacity. · File size of captured data is up to 4 GB.

#### Corresponds to CAT III 600 V and 600 V rms measurement

332 520

Supports CAT III 600 V measurement category and can measure voltage fluctuation on power line for peak to peak and RMS measurements. Voltage range up to 1000 V at DC and rms value (\*3)

8 60

#### Additional memory function

#### Long term recording capability 4 M sample/ch built-in RAM and 4 GB built-in Flash memory. Continuous measurement supports up to 4 GB per file.

Memory type (*4)	1MS/s (1µs)	100kS/s (10µs)	1kS/s (1ms)	1S/s (1s)
Built-in RAM (4 M samples/ch)	4 seconds	40 seconds	66 minutes	46 days
Built-in Flash memory (3.9 GB)	N/A	N/A	3 days 19 hrs	Over 1 year
External memory (SD/USB Flash memory)	N/A	N/A	4 days 3 hrs	Over 1 year

#### Large built-in RAM (4 million samples per channel)

Built-in RAM can divide into 1, 2, 4, or 8 blocks supporting continuous high-speed recording measurement with auto backup on the internal Flash memory or USB.

#### Dual external recording available through USB and **SD Card Flash memory**

Both the USB Flash memory device and the SD Flash memory card can be used as external storage device for captured data.

#### High performance and easy to use software for PC

#### Standard software: GL980\_2000-APS

- Easy connection made possible with automatic search function for connected device.
- Multiple display format using Y-T graph, X-Y graph and digital values. Supports real time data transfer up to 1 ms sampling interval.
- Captured data from the built-in RAM can also be displayed. Captured data saved in binary format can convert to CSV format.
  - ♥ Y-T graph (waveform) display **Functions Configure GL unit** 🔽 X-Y graph Control GL unit Real-time data display **Replay saved data** Data format conversion

Number of analog External input/output Trigger function	g input channels Input (*1) Output (*2) Trigger action Repeat action Trigger source	4 channels Logic or Pulse (4 channels), Trigg Alarm (4 channels) or Trigger (1 ch Start or stop capturing data by tr Off, On (Re-armed automatically)	annel) with Alarm (3 channels) iggering	Type of Input me Samplin Frequen
input/output	Output (*2) Trigger action Repeat action	Alarm (4 channels) or Trigger (1 ch Start or stop capturing data by tr	annel) with Alarm (3 channels) iggering	Samplin
	Trigger action Repeat action	Start or stop capturing data by tr	iggering	
Trigger function	Repeat action			Frequen
		Off On (Re-armed automatically)		
	Trigger source			Measure
		Start/Stop : Off, Measured signal, A	larm, External, Scheduled time,	range
		Scheduled day, Elapsed time		-
	Combination	Level OR, Level AND, Edge OR, E	Edge AND	
	Threshold	High or Low in level mode, Rising		
		Window-in (*3), Window-out (*3)	,	
Alarm function	Alarm action	Display and outputs a signal whe	n alarm is detected	
	Combination	OR (Source channel can be assigned		Filter (Lo
	Threshold	Analog input : High, Low, Windo		A/D con
		Logic input : H or L		Maximu
		Pulse input : High/Rising, Low/Fa	alling Window-in Window-out	voltage
Calculation	Between	Addition, subtraction, multiplication		voltage
function	channels	inputs (only in GBD format)	IT and division for two analog	Maximun
			raplay captured data	
	Statistical	Real-time or between cursors in r		(withstar
Caalina (Engineer		Function : Max., Min., Peak-to-Peak		Externa
Scaling (Engineer		Measured value can be converted to		Item
Storage device(*4)	Bulit-In RAM	Four million samples for each cha		Input sig
		(Memory partition: 4 M samples x 1		for Logic
		1 M samples x 4 banks, 512 k sa		
	Built-in Flash	4 GB (for capacity of data: appro		Logic m
	External USB	Support USB Flash memory devic	e ( 5) by USB2.0 Type A port,	Pulse
		No memory capacity limit (*6)		measure
	External SD card	Support SDHC memory card (up t	to 32 GB) by SD Card slot (*6)	
Capturing mode	Mode	Off (Normal), Ring, Relay		
	Off (Normal)	Save data between start to stop		
	Ring	Save most recent data of specifie		
		Destination : Built-in RAM, Built-		
		Number of capturing data: 1000		
		<ul> <li>Sampling : 1 MS/s (interval 1 µs) in b</li> </ul>	uilt-in RAM, 1 kS/s (interval 1 ms)	External
		with GBD format in other device, 10	00 S/s (interval 10 ms) with CSV	External
		format in other device		
	Relay	Save data to multiple files with spec	cified capturing time or file size	Output s
		(up to 4 GB) until recording data	is stopped	
		· Destination of data : Built-in Fla	sh, USB or SD	
		· Sampling : 1 kS/s (interval 1 ms	) with GBD format,	Softwar
		100 S/s (interval 10 ms) with CS	V format	Item
Data backup	Interval	Off, 1, 2, 6, 12, 24 hrs., specific time	, or any time with key operation	Model n
	Data destination	Built-in Flash memory, USB memory	device, SD Flash memory card	Support
	Hot-swapping	USB Flash memory device or SD Fla		Function
Display (LCD)	Size	7-inch TFT color LCD (WVGA : 80		
	Information	Waveform in Y-T with digital valu		Support
		Digital values and statistics value	s, X-Y graph	Settings
	Туре	Ethernet (10 BASE-T/100 BASE-	TX), USB2.0	Transfer
	Ethernet	Web server function, FTP server	function, NTP client function,	capture
	functions	DHCP client function, Email send	I function	from GL
	USB function	USB mode (File transfer and deletion	n from internal GL980 memory)	
Operating enviror	nment	0 to 40 °C when driven by AC ad	apter or battery,	
		5 to 85 % RH (non condensed)		Displaye
Power source		AC adapter : 100 to 240 V AC, 50	)/60 Hz	Display
		DC power : 8.5 to 24 V DC		File ope
		Battery pack : Mountable two bat	ttery packs (*8)	
Power consumpti	íon	Approx. 59 VA (using the AC ada		Past dat
		with LCD display on, and battery		
External dimensio	ons [W×H×D]	Approx. 260 x 161 x 83 mm (with		Statistic
Weight		Approx. 1.7 kg		Standar
		(the cover is attached, AC adapter	and batterys are not included)	AC ada
Vibration resistan	се	Compatible with JIS Vibration tes		· CD-RC
		Type 1 Class A (Vibration durabili		Tilt sta
1: Select either Logic	c input (4 channels) or I	Pulse input (4 channels), select either extern		Ferrite
-		ries (B-513) option for connecting signal.		Options
2: Select either Trig	ger output (1 channel)	or Alarm output (1 channel). Available 3	channels Alarm output always.	Item
		ries (B-513) option for connecting signal.		Input/O
3: Not available with				DC drive
		red data Saved contents in built-in Flash		Humidit
	SD memory card : Ca emory devices are rec	otured data, Setting conditions, Screen o uuired.	,opy	Shunt re
<ol> <li>6: File size of apture</li> </ol>		1		Battery
	-in RAM, 10 to 40000	00 points		Bracket
-	tteries (B-569) packs v			Carrying
9: Connections can b	be made individually to	BNC terminal or M3.5 screw terminal. Those		Input cab
		card and USB memory, sampling is 1 kS		Input ca
		t/Output cable for GL series (B-513) opti		Input ca
		DC and AC components in effective val or used with operating systems that have be an used with operating systems.		Clip, Alli
12: Graphtec does no supported by the		er used with operating systems that have b	soome obsolete and are no longer	Clip, Alli
		Enterprise, Professional and Home Premi	ium are supported.	Clip, Gra
				Input ca
	ent are not guard	ent or PC failure, the data files inteed to hold memory. whenever possible to avoid do	ter te ce	Input ter
on the instrume	backup of data	whenever possible to avoid do les listed in this brochure are the	ita loss. trademarks	AC Ada
on the instrume Please make a Brand names of		r respective owners		
Brand names c	adamarks of thei	and the second	<ul> <li>The second of Management for the second states.</li> </ul>	nlease ch
Brand names c	adamarks of thei	ubject to change without notice	e. For additional information,	picase ci
or registered tro Specifications	ademarks of thei and details are su		• Use only in accordance with	
or registered tro Specifications	ademarks of thei and details are su	rectly and safely!		product's u

Type of input terr	minel		Description		
Input method			solated BNC connector and Screw terminal (M3.5 screw) (*		
	(intonici) (**		All channels isolated unbalanced input, Simultaneous samplin		
Sampling speed (			1 M Samples/s to 1 Sample/min (1 µs to 1 min) and External		
Frequency respon			DC to 200 kHz (within +1/-4 dB) 20, 50, 100, 200, 500 mV, 1, 2, 5, 10, 20, 50, 100, 200, 500, 1000		
Measurement range	Voltage (D	· ·	and 1-5V F.S. (Max. rated safety voltage: ± 600 V DC)		
lange	Voltage		10, 25, 50, 100, 250, 500 mV rms, 1, 2.5, 5, 10, 25, 50, 100, 250, 50		
	(DC-RMS)		1000 V rms F.S. (Frequency response: 20 Hz to 10 kHz)		
	(201		Crest Factor : up to 1.4 at 1000 V rms range, up to 2 in other rang		
	Temperati		Thermocouple: K, J, E, T, R, S, B, N, W (WRe5-26)		
	Humidity		0 to 100 % RH - using the humidity sensor (option B-530)		
Filter (Low pass)			Off, Line (1.5 Hz), 5, 50, 500 Hz, 5, 50 kHz (at -3dB, -6dB/od		
A/D converter			16-bit (effective resolution: 1/40000 of the measuring full rang		
Maximum input	(+) to (-) te	rminal 2	20 mv to 2 V range: 30 V DC/AC, 5 V to 1000 V range: 600 V DC/A		
voltage	Between ch	nannels 6	600 V DC/AC (CAT III)		
	channel -	GND 6	600 V DC/AC (CAT III)		
Maximum voltage	Between ch	nannels 5	5400V DC/AC (1 minute)		
(withstand)	Between chann	els - GND 🚦	5400V DC/AC (1 minute)		
External input/o	utput spec				
Item			Description		
Input signal specification			Voltage range : +5 to +30 V (common ground)		
for Logic/Pulse ar	nd		In Logic/Pulse, Threshold : Approx. +2.5 V		
			In Trigger/Sampling, Threshold : Approx. +1.9 V		
Logic measureme	ent	1	Measures the status (H or L) of the signal input to each chann		
Pulse	Measurem	nent (	Counts pulse signals input to each channel		
measurement	Max. puls	e input	Max. input frequency : 100 kHz, Maxi. count number : 15 M cour		
	Count det	ection	10 µs to 1 hr. (Set separately from analog signal sampling interva		
	Measuren	nent ·	• Rotation : Counts pulses and convers to rotation in rms,		
	mode		span is up to 500 M rpm		
			Accumulating: Accumulates pules counts from the start,		
			span is up to 20 M count (it is set automatically)		
			Instant : Couns puleses per detectioncycle, spanis up to 20 M cou		
External trigger ir			Executes specified trigger action		
External sampling	g input (*10	)	Executes sampling of measurement signal with each external		
		5	sampling signal, max. input frequency is 100 kHz		
Output signal	Alarm out	out	Open collector (pull-up to 5 V with 10 k $\Omega$ resistor),		
			maximum load is the 24 V and 100 mA		
	Trigger ou	tput	When a trigger is detected, 500 µs width pulse is released		
Software specifi	ications				
Item		[	Description		
Model name			GL980_2000-APS		
Supported OS (*1	12)	١	Windows10, 8.1, 8, 7 (SP1 or later)		
Functions		0	Control the GL series, Real-time data capture, Replay data,		
		á	and Data format conversion		
Supported device	е		1 unit of GL980 or GL2000		
Settings control			nput condition, Capturing condition, Trigger/Alarm condition, e		
Transfer of	In memory		Transfer the captured data to a PC sequentially while data is bein		
captured data	capturing		saved in built-in RAM, sampling interval is 1 µs to 60 s		
	In real tim		Transfer the captured data to a PC while data is being saved		
			built in flach momony SD momony card or LISP momony		
	capturing		built-in flash memory, SD memory card or USB memory		
from GL2000	capturing		n GBD and CSV format, sampling interval is 1 ms to 60 s		
from GL2000 Displayed informa	capturing		n GBD and CSV format, sampling interval is 1 ms to 60 s Analog, Logic, Pulse count waveform, and Digital value		
from GL2000 Displayed informa Display mode	capturing	/	n GBD and CSV format, sampling interval is 1 ms to 60 s Analog, Logic, Pulse count waveform, and Digital value Y-T waveform, Digital values, X-Y graph		
from GL2000 Displayed informa Display mode	capturing		n GBD and CSV format, sampling interval is 1 ms to 60 s Analog, Logic, Pulse count waveform, and Digital value Y-T waveform, Digital values, X-Y graph Converting data format to CSV from GBD binary with data		
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from GL2000 Displayed informa Display mode File operation	capturing	 / /       	In GBD and CSV format, sampling interval is 1 ms to 60 s Analog, Logic, Pulse count waveform, and Digital value Y-T waveform, Digital values, X-Y graph Converting data format to CSV from GBD binary with data between cursors or all data Displays the current data or past part of data by switching.		
from GL2000 Displayed informa Display mode File operation Past data screen	capturing ation function		In GBD and CSV format, sampling interval is 1 ms to 60 s Analog, Logic, Pulse count waveform, and Digital value Y-T waveform, Digital values, X-Y graph Converting data format to CSV from GBD binary with data between cursors or all data Displays the current data or past part of data by switching. Available at sampling speed 1 kS/s to 1 S/m (1 ms to 1 min sampling interv		
from GL2000 Displayed informa Display mode File operation Past data screen Statistical calcula	capturing ation function ation		In GBD and CSV format, sampling interval is 1 ms to 60 s Analog, Logic, Pulse count waveform, and Digital value Y-T waveform, Digital values, X-Y graph Converting data format to CSV from GBD binary with data between cursors or all data Displays the current data or past part of data by switching. Available at sampling speed 1 kS/s to 1 S/m (1 ms to 1 min sampling interv		
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from GL2000 Displayed informa Display mode File operation Past data screen Statistical calcula Standard access • AC adapter with	capturing ation function ation sories		In GBD and CSV format, sampling interval is 1 ms to 60 s Analog, Logic, Pulse count waveform, and Digital value Y-T waveform, Digital values, X-Y graph Converting data format to CSV from GBD binary with data between cursors or all data Displays the current data or past part of data by switching. Available at sampling speed 1 kS/s to 1 S/m (1 ms to 1 min sampling inter Max., Min., Average and Pack-to-Peak value during data capturin • Quick start guide and Safety guide		
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from GL2000 Displayed informa Display mode File operation Past data screen Statistical calcula Standard access • AC adapter with • CD-ROM (PC ap • Tilt stand set (in • Ferrite core (atta Options and Acce Item Input/Output cab DC drive cable Humidity sensor Shunt resistor	capturing ation function ation sories n power cal pplication s icluding mc ach to cabl cessories	I           //	In GBD and CSV format, sampling interval is 1 ms to 60 s Analog, Logic, Pulse count waveform, and Digital value Y-T waveform, Digital values, X-Y graph Converting data format to CSV from GBD binary with data between cursors or all data Displays the current data or past part of data by switching. Available at sampling speed 1 kS/s to 1 S/m (1 ms to 1 min sampling inter Wax., Min., Average and Pack-to-Peak value during data capturin • Quick start guide and Safety guide User manual) • Cover (attached to the main body) crews M4) • Screws (M3.5) for input terminal iation reduction) No. Description 2 m long (no clip on end of cable) 2 With 3 m long signal cable (with power plug) 250 ohms (Converts signal from "4-20mA" to "1-5V".)		
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