GRAPHTEC INSTRUMENTS

Compact Standalone

GL260 data LOGGER



midi LOGGER GL260

Evolved

SIMPLE • PORTABLE • VERSATILE

NEW FEATURES including CLOUD ACCESS

Alarm History Function

• Easy search of event dates and history

Enhanced CH to CH Calculation

New calculation functions added

Memory Loop Function

• Enables recording for longer periods of time

G-REMOTE

- Cloud Server Service
- Remote Control Service
- Data Storage Service
- *Additional charge for use.
- *Offered in limited areas only.



GL260 data LOGGER

GRAPHTEC INSTRUMENTS

SPECIFICATIONS

ltem		Description		
	Number of channels	10ch / Screw terminal (M3)		
Analog input	Туре	Scans channels for sampling, All channels isolated, balanced input		
	Measurement range	Voltage: 20mV - 100V, 1-5V F.S.		
		Thermocouple: K, J, E, T, R, S, B, N, C	and (the old W: WRe5-26)	
		Humidity: 0 - 100% (optional item B	-530 is required)	
	Filter	Off, 2, 5, 10, 20, 40 (moving average i	n selected number)	
	Max. input voltage	Between(+) / (-) terminal	20mV - 1V range: 60V p-p	
			2V - 100V range: 110V p-p	
		Channels ((-) / (-)): 60 V p-p Channel / GND: 60 V p-p		
External input (*1)	Number of channels	Trigger of Sampling (1 channel), or E. Logic / Pulse (4 channel)	xternal Sample Inputs 1ch	
(1)	Pulse input	Rotation count (RPM) mode (*2) Accumulating count mode Instant count mode Max. input frequency: 50kHz / Max. count: 50kc / sampling		
External output (*1)		Alarm output: 4ch		
Scaling function		Analog channel, Pulse channel		
Sampling interva	I	10ms - 1h (10ms to 50ms: voltage only, limited number of CH) External signal		
A/D converter		$\Delta\Sigma$ type, 16Bit (effective resolution: 1/40,000 of ± range)		
PC I/F		USB2.0, wireless LAN (optional item B-568 is required)		
Storage	Storage	Built-in memory : approx. 8GB, SD ca	rd slot: 1	
medium (*3)	Data format	GBD / CSV		
Capturing mode		OFF (default), Ring, Relay		
Other functions		Calculation function, Trigger, Alarm function, Data backup function(*4)		
Display		4.3" TFT (WQVGA: 480 x 272 dots)		
Operating enviro	nment (*5)	0 - 45°, 5 - 85% RH		
Power source	AC adaptor	AC100 - 240V / 50 - 60Hz		
	DC input	DC 8.5 - 24V (optional item B-514 is required)		
Battery pack		DC 7.2V (2875mAh) (optional item B-573 is required)		
Power consumption		Max. 36VA (when AC100V)		
Dimentions		188 (W) x 117(D) x 42(H) mm		
Weight		500g (excluding AC adaptor and battery pack)		
Vibration resistar	nce	Equivalent to Automobile parts Type 1 Class A		



Item	Model No.	Description
GL wireless LAN unit	B-568	Standard: IEEE802.11b / g / n
		Communication distance:
		approx. 40m (Depending on the situation)
Battery pack	B-573	1 unit: 7.2V/2875mAh
Input/Output cable for GL	B-513	2m long (no clip on end of cable)
DC drive cable	B-514	2m long (no clip on end of cable)
Humidity sensor (*7)	B-530	3m long (with power plug)
Shunt resistor 250Ω	B-551-10	±250 Ω (0.1%), Rated power of 1 W,
		Maximum operating voltage15.8V
AC adapter for GL260	ACADP-20	AC adapter for maintenance
Type KTC adapter	TC-K-5	Type K mini-connector to spade lugs, 12", 5 pack
Type TTC adapter	TC-T-5	Type T mini-connector to spade lugs, 12", 5 pack
Pelican case	B-536US-260	Custom Pelican case for GL260
		I

CLOUD SERVICE	E (G-REMOTE) (*Additional charge for use)	
Item	Description	
Supported OS (*6)	Windows11/10	
Supported WEB browser	Google Chrome (reccomended), Microsoft Edge, Firefox	
	(*Internet browser supporting HTML5)	
Service content	<remote control="" service=""></remote>	
	Easy remote control and confirmation of measurement data	
	from G-REMOTE on a browser via an Internet connection	
	<data save="" service=""></data>	
	Storing data on Graphtec cloud servers via Internet connection	
	* For more information about product, please check the web site	



Max Sampling Interval of up to 10ms					
By narrowing down the number of channels, enabled to record data in max. 10 ms.				nax. 10 ms.	
Sampling Interval		10ms	20ms	50ms	100ms
Number of CHs		1	2	5	10
Measuring	Voltage	√	✓	✓	√
	Temp.	_	_	_	√

8GB memory for reliable long-term measurement

Recording time example (when only 10 analog channels are used, 2 GB recorded)*						
Sampling Interval* 2	10ms	50ms	100ms	200ms	500ms	1s
GBD Format	41 days	88 days	103 days	207 days	Over 365	Over 365 ¹
CSV Format	3 days	12 days	18 days	36 days	91 days	182 days

SOFTWARE SPECIFICATIONS PC

Item	Description
Supported OS (*6) GL28-APS	Windows 11/10 PC for date logger settings, data recording, storage, playback
	Supported Models: GL260/GL840/GL240
	Connectable Units / channels: Max. 10 units / 1,000ch
GL-Connection	GL Series Integration Software
	PC for date logger settings, data recording, storage, playback
	Supported models: GL7000/GL2000/GL980/GL840 GL240/GL260/GLT400
	Connectable units: 20
	Max. 2000ch

CALIBRATION (Production Data)

Item	Code	
NIST-CAL	NIST calibration with cert.	
NIST-CAL-DATA	NIST calibration with cert & data	
ISO-17025-260	ISO-17025 calibration for GL260	

^{*}Documents ordered at the time of product purchase are data at the time of manufacture. Please visit calibration services section of our website for details.

- *1: Input/Output cable for GL (option B-513) is required.
- *2: The pulse count mode counts the number of pulses per sample interval and converted to revolutions per minute.
- *3: Recorded in 2GB per file, SD cards available.
 - *Supported SDHC, up to approx. 32GB memory
- *4: If the ring setting and external sampling function is ON, the backup function is not available. If the backup destination is FTP, GL wireless LAN unit(B-568) is required.
- *5: When operating with battery pack 0 to 40° C, charging battery 15 to 35° C
- *6: OS that are no longer supported by the OS manufacturer are not supported by Graphtec.
- *7: Available temperature range: -25°~+80° Special order/ 10m, 15m, 20m avilable)
- *8: Specifications are subject to change without notice as this a commercial product.
- Due to the possibility of equipment or PC failure, the data files on the instrument will not be guaranteed to be held on the memory.
- Please make a back up of data whenever possible to avoid data loss
- Brand names and product names listed in this brochure are the trademarks or registered trademarks of their respective owners.
- Items mentioned are subject to change without notice. For more information about product, please check the web site or contact your local representative.





^{*2:} Depending on the sampling interval, the number of channels are limited. 10ms: 1ch, 20ms: 2ch, 50ms: 5ch



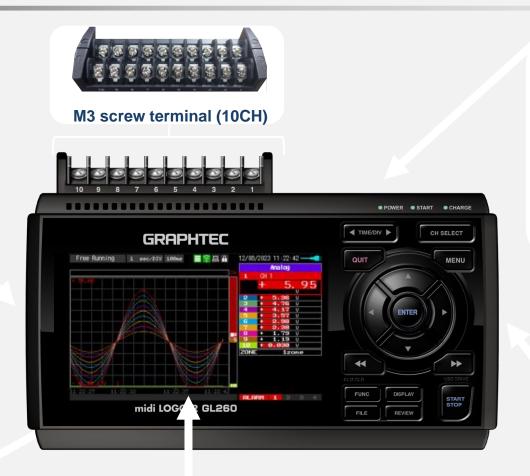


Unit Design

Interface



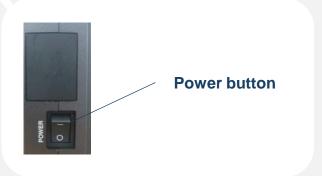






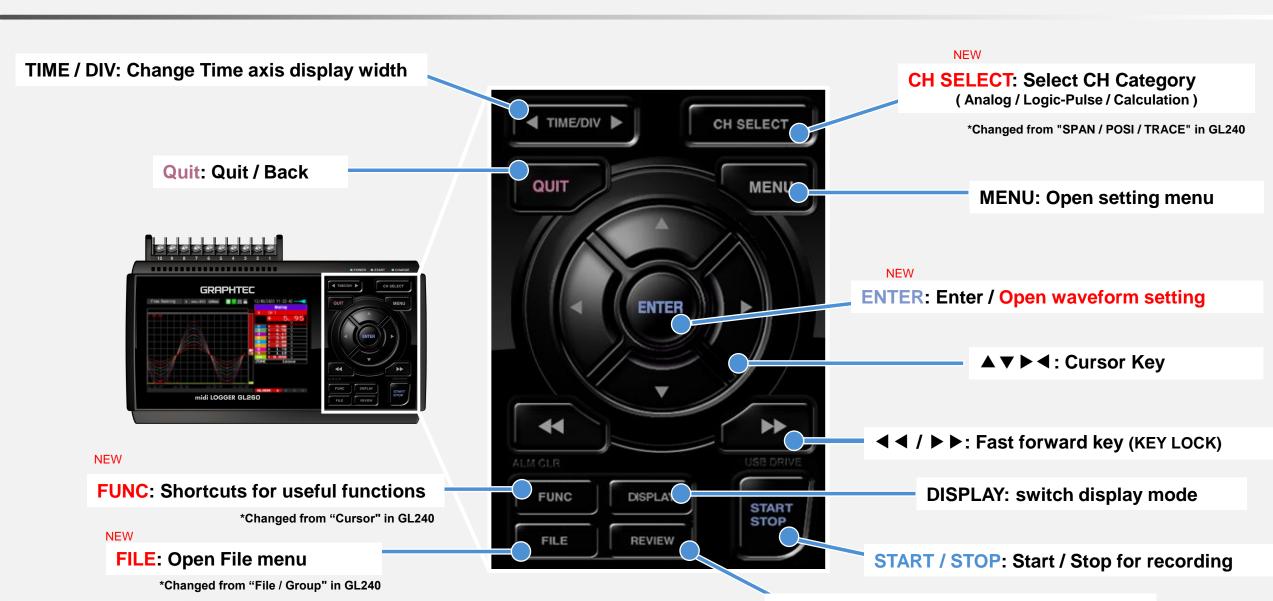


4.3-inch TFT color LCD



Control panel key





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REVIEW: Playback of recorded files



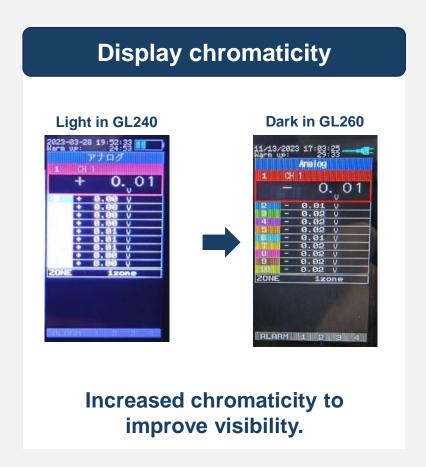
Improved Visibility

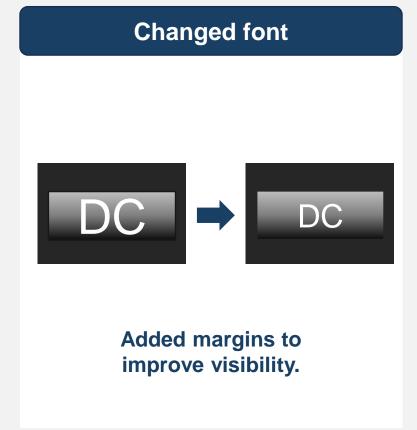


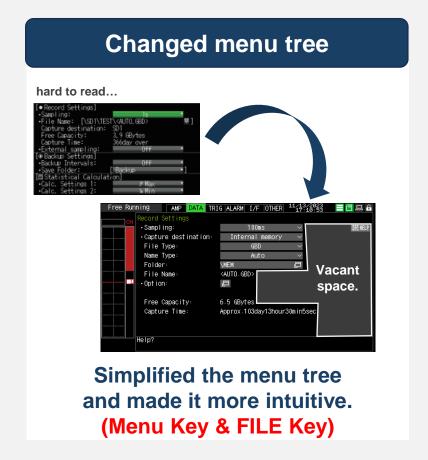
Improved Visibility



3 visibility improvements











Improved Operability



Improved Operability



3 operability improvements

Simplified waveform setting



Intuitive SPAN / POSI / TRACE operation.

Web server function



Faster update speed.

HELP-QR function



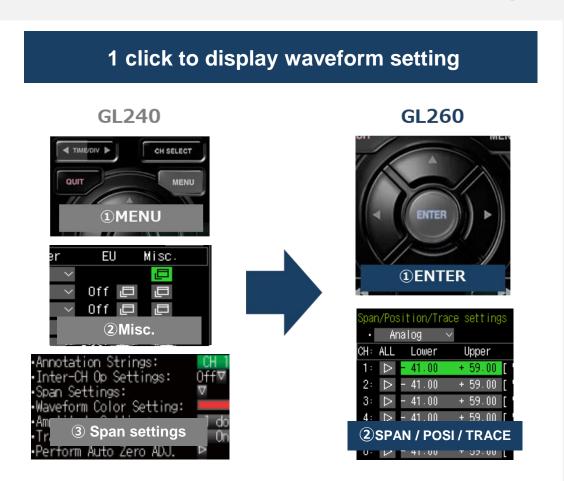
QR code for more detailed information.

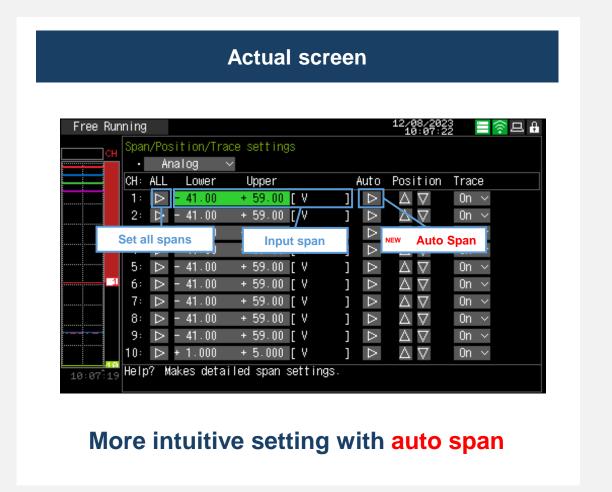


Simplified waveform setting



SPAN / POSI / TRACE settings can now be configured in less steps.

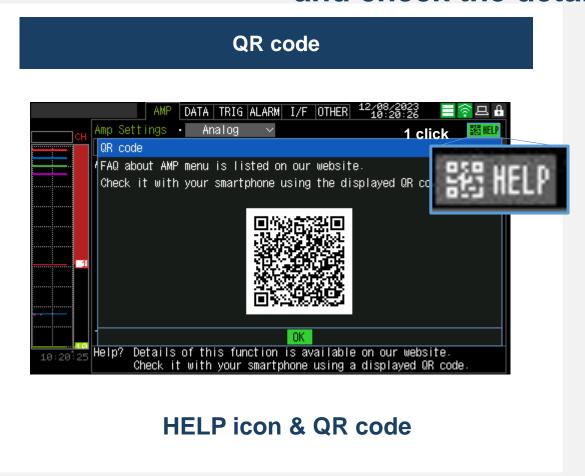




HELP – Display QR Code



Scan the QR code to see the related web page and check the detailed information.





By scanning the QR code in each setting item, users can reach to information on the FAQ web page.

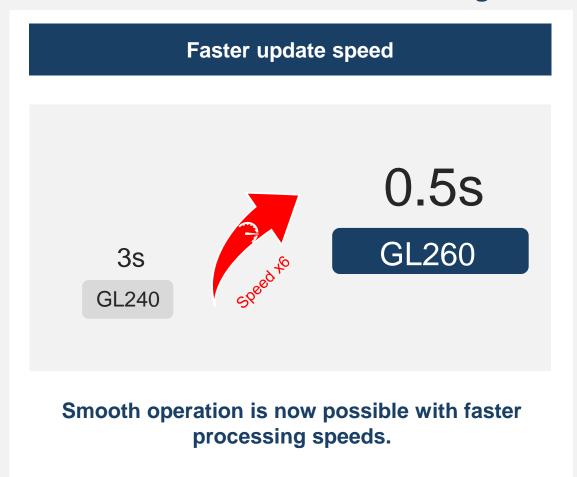
FAQ Supported languages: Japanese and English



Faster WEB server function



For smoother operation, CPU processing speed has been increased and settings screen has been renewed.



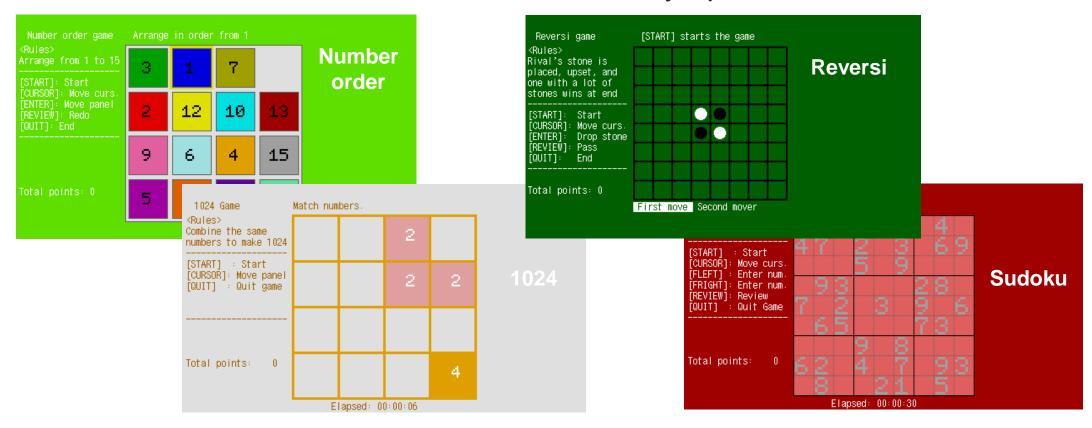


Install the same setup screen design as the logger. Data in the loggers can be downloaded.



News

The game function has been restored aiming to familiarize users with key operations.





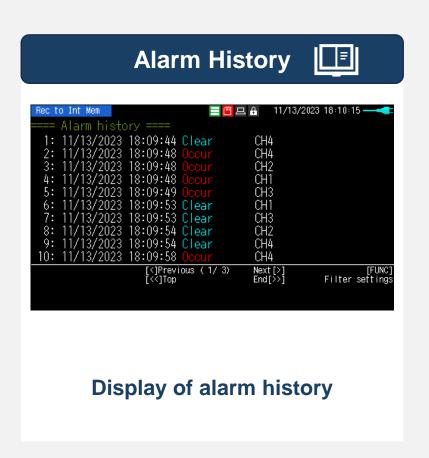


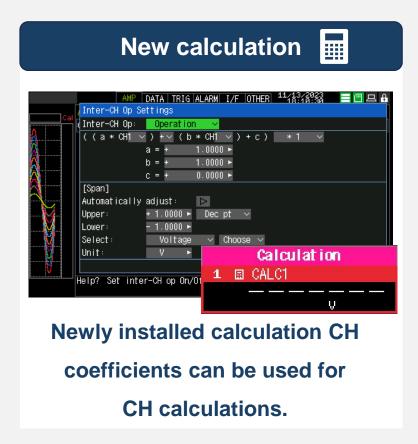


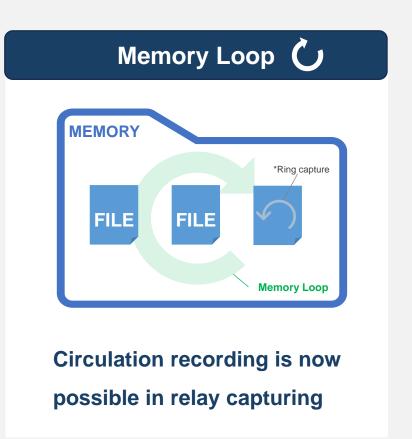
Improved functionality



3 new functions









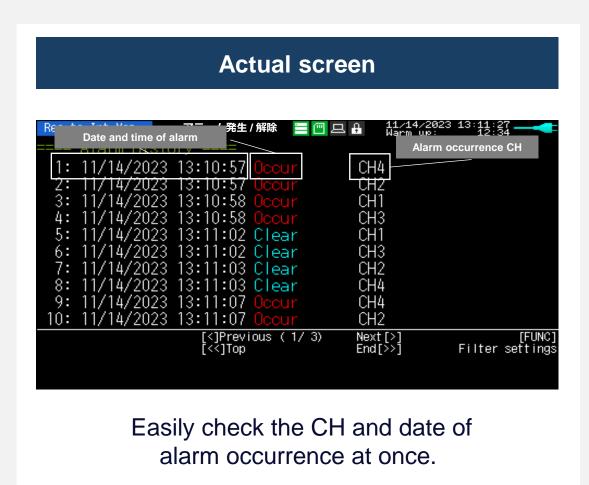
Alarm History

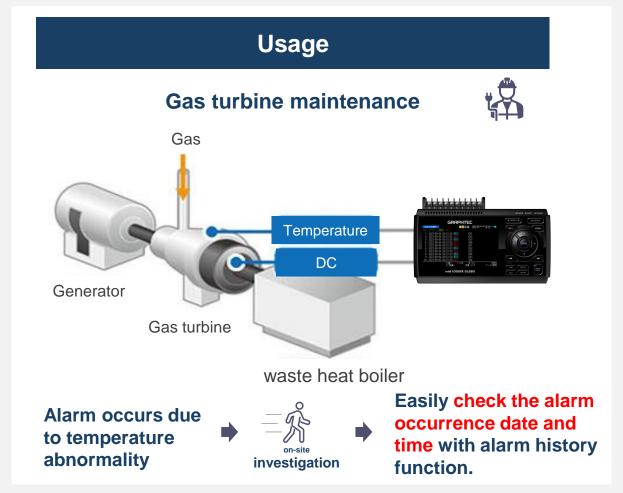
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What is Alarm History Function?



This function shows the date / time history of alarm occurrence / cancellation.







Alarm History Function



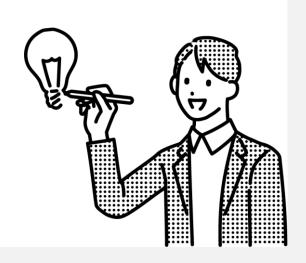
Target Users

- ✓ Want to keep a record of the condition.
- Want to check the alarm history during recording.
- Want to use the alarm function.

Production Monitoring









Alarm History - Data format-

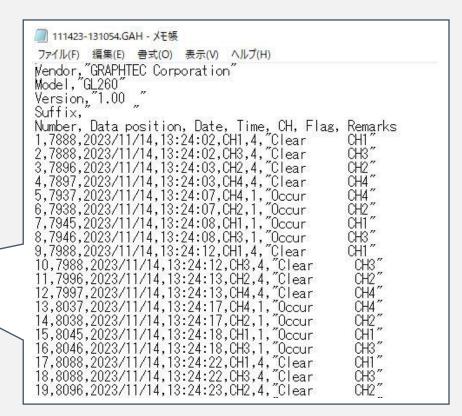


Alarm history data is saved in text format data.

- Alarm history data is saved in .GAH format.
- GAH can be opened as a text file.



*GAH files are saved in the same folder as the recorded files.







New Calculation



CH-to-CH calculation function



What is the CH-to-CH calculation function?

Calculation function between two CHs.

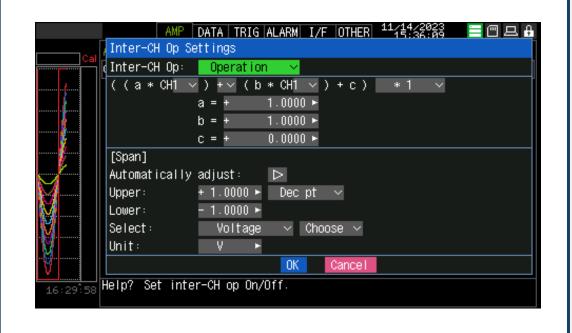
$$\Rightarrow$$
 Ex.) CH1 + CH2 = X

GL240 calculation function

- Overwrite analog CH with calculation
 - = 1 CH occupied by calculation.
- Calculation is only between CHs
 - = Coefficients are not available.
- => Only limited calculation can be performed.

GL260 New Calculation

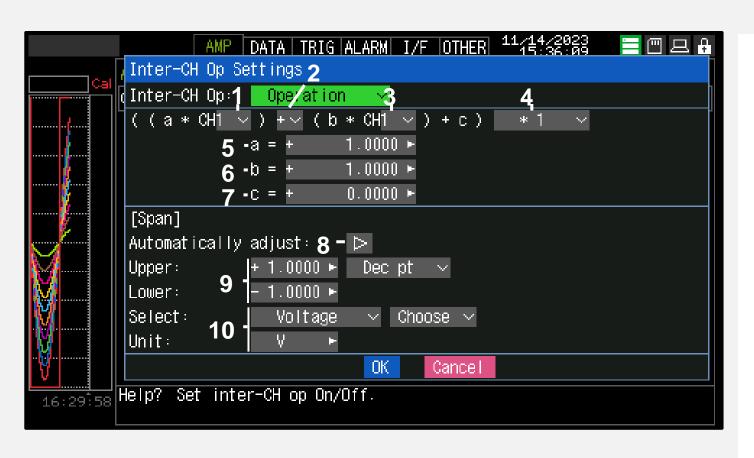
- **Dedicated CHs** for calculation is set up
- Coefficients can now be used
- Two types of calculation can be selected



<Calculation> Arithmetic equation



Output calculated data using coefficients or adjusting the number of digits are now available.



[Arithmetic equation]

- 1. CH referenced by calculation
- 2. Arithmetic symbols
- 3. CH referenced by calculation
- 4. Digit adjustment
- 5. Coefficient a
- 6. Coefficient b
- 7. Coefficient c

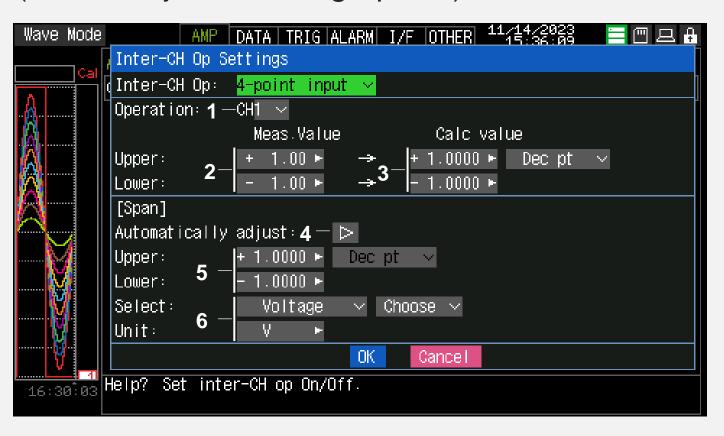
[Span]

- 8. Auto span
- 9. Manual input
- 10. Select the unit of output value

<Calculation> 4-point input



The 4-point input enables temperature slope calculation output. (Allows adjustment of graph tilt)



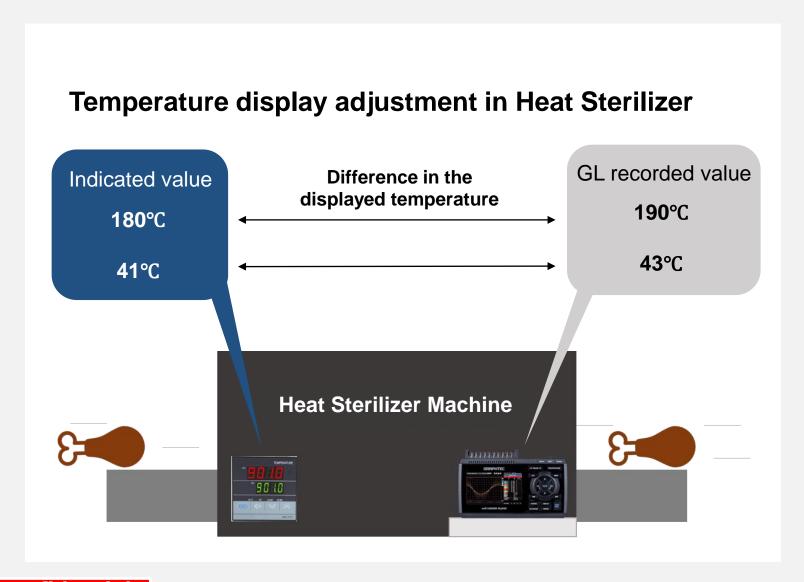
[4-point input]

- Upper and lower limits of measured value
- 2. Four arithmetic operations
- 3. Upper and lower limits of output values

[Span]

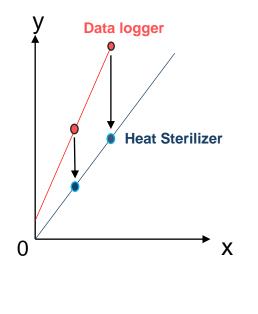
- 4. Auto span
- 5. Manual input
- 6. Unit Selection of output value

<Calculation> Application Example



4-point input

Adjust the difference of displayed temperature between the sterilizer and data logger.





Memory Loop Function C

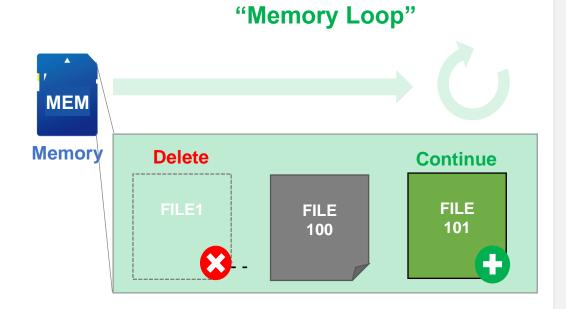


What is Memory Loop Function?



A new optional function of Relay capturing that automatically deletes the oldest files before memory capacity runs out and continues recording.

MEM Memory FILE1 FILE 100 STOP!

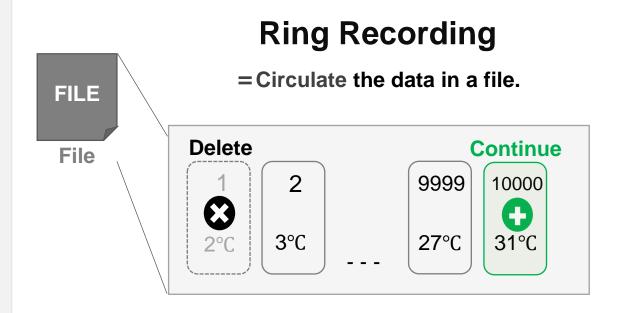


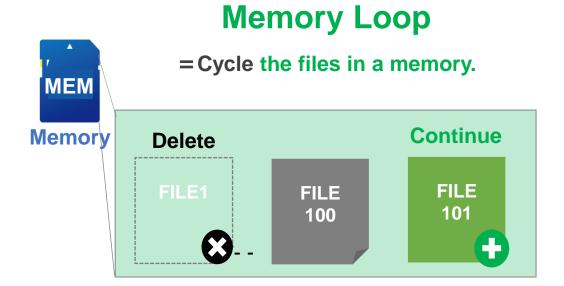


Difference between Ring Capturing and Memory Loop



Ring Capturing is a function that saves only the latest data of a specified number. **Memory Loop** is a function that storages data using the memory of the recording destination to the maximum extent.







<Memory Loop> Application Example



Maintenance of production line















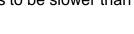


We want the to monitor the machine condition semipermanently. Also, the recording should be stopped and the data to be saved for 6 months only when a trouble caused.



- Ring Recording

Sampling speed needs to be slower than 200ms.





Recording stops automatically when the memory is full



- Memory Loop





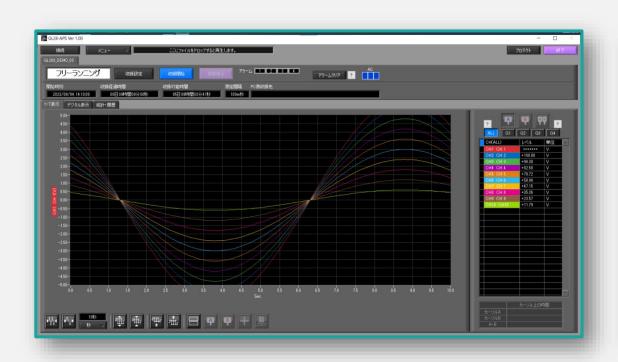


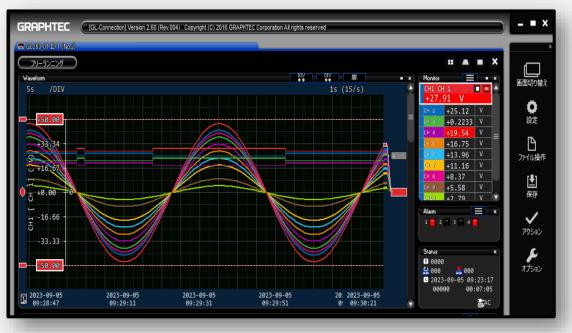
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Standard Software





GL28-APS

GL-Connection

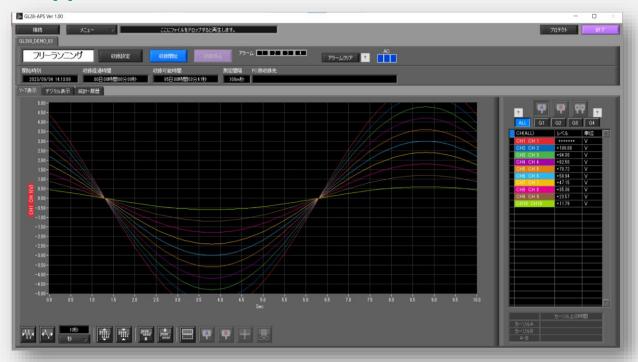


Software for GL260



GL28-APS

Supported models: GL260 / GL840 / GL240



Max. 10 units can be connected

Standard software to check, record, and save waveforms on a PC

Easy operation

Intuitive UI design Simple specifications **Versatile display**

Digital Value Screen Statistical calculation screen Integral bar graph screen



GL820 / GL220 / GL100 are supported by GL100_240_840-APS.

Integrated Waveform Monitoring Software



GL-Connection

Supported models: GL260 / GL7000 / GL2000 / GL980 / GL840 / GL240 / GLT400

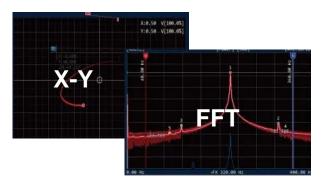
Multiple GL series can be managed at once.

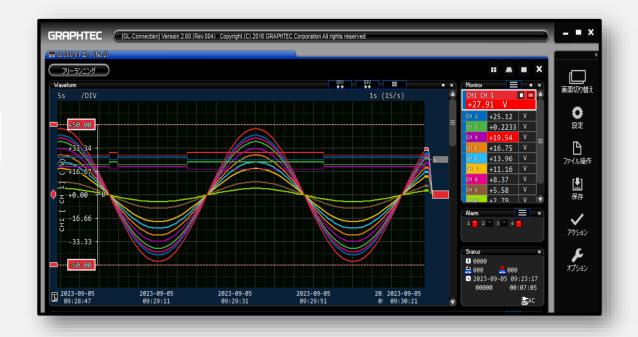
Focus on visibility



Monitor multiple loggers!

Various waveform displays





New Battery Pack

The battery pack will be changed from GL260.

B-569 B-573

GL240 GL260

Model	B-569	B-573
GL240	Υ	-
GL840	Υ	-
GL980 / GL2000	Υ	-
GL260	*	Y

^{*}Battery performance declines by 20%.

Model	B-569	B-573	
Capacity	2900mAh	2875mAh	
Charge voltage	8.4V	7.2V	

