





DATA PLATFORM GL7000 Modular Data Acquisition PLATFORM



General Purpose Data Acquisition System

Next Generation Data Acquisition Unit with Touch Panel Control On-Demand Signal Acquisition Embedded Monitoring and Datalogging Solution



Attach up to 10 input/output modules in a mixed condition environment

Corresponds to various measurement types (physical, mechanical, and electrical)

Supports a variety of storage media including a SSD module with a capacity of 128GB

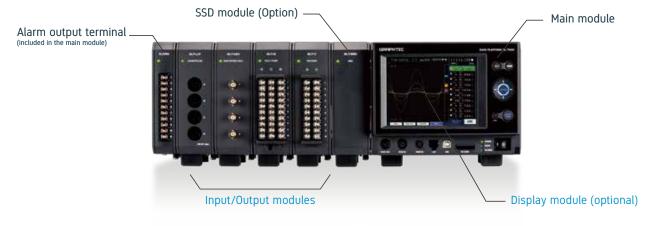




New Generation Data Acquisition Platform - GL7000 -Display module allows a stand-alone operation or an embedded systems environment with touch-panel control

Input/output module has capacity to attach up to 10 units with mixed signals (temp, high voltage, high speed, strain, vibration, etc.)

Allows up to 112 channels in one main unit by attaching up to 10 units of the input/output modules.*1 Detachable display module enables the GL7000 to bre used in a stand-alone platform or to be embedded into the acquisition system. Control and monitoring via the PC or display module may be done independtnly or in conjuctions with one another.

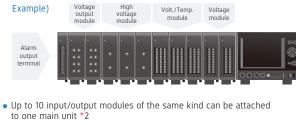


MODULE OPTIONS (8 TOTAL) - Compatible with various electrical, mechanical, and physical measurement needs.

Voltage	Volt./Temp.	High-speed	High Voltage
Module	Module	Voltage Module	Module
GL7-V	GL7-M	GL7-HSV	GL7-HV
DC Strain	Charge	Voltage Output	Logic/Pulse
Module	Module	Module	Module
GL7-DCB	GL7-CHA	GL7-DCO	GL7-L/P

Maintains the maximum sampling speed even when the number of input/output modules are increased *1

• Each of the 10 units can include a different input/output module *2



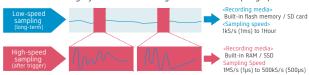
Volt./Temp. module



Dual-Sampling Feature (Firmware version 2.0 or later)

Example)

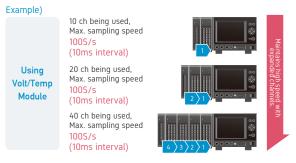
Dual sampling speed can now be configured at the same time. While recording long intervals on the slow sampling speed, trigger set can start recording dynamic transient signals at a fast sampling speed.



LAN straight cable (CAT5 or higher class, length up to 10m) allows an extended display option for:



Up to 10 input/output modules can be attached to one main unit *2



Maximum sampling speed will depend on the data destination. (RAM and optional SSD module is the fastest, Flash memory, SD Card will be slower.)

*2 If different types of modules are attached.

If different types of modules are attached, the effective sampling speed of the system is to up to the fastest sampling speed among the installed modules. When the maximum sampling speed of the module is slower than the maximum sampling speed of the fastest amplifier, signal will be sampled with maximum sampling speed of the module. The same data is saved with the system sampling speed until new data is captured on the slower units.





The display unit incorporates a touch panel system to provide convenient on-site operation



Four Different Display Methods

Each of the 10 units can include a different input/output module *2



4GB of Flash memory is built into the main module. Captured data can be saved directly to the flash memory when sampling speed is less than 1ms (1k Samples/s). Non-volatile

Advantage of SSD • Retain the data even when power is off • High vibration resistance • High-speed access

* The number of modules are limited. * The storage capacity might differ by its production date

memory (saved data is retained even if the power is turned off). * The storage capacity might differ by its production date.

Allows multiple recording of large amount of data to be saved when optional SSD module is used. It has a high

vibration resistance and the captured data can be saved directly to the SSD when sampling is not faster than 1µs.

Select two functions from the Ave. / Max. /

SSD module needs

to be set next to

the main module.



2 Built-in Flash memory

4 SSD module (128GB)



Supports multiple types of storage, 128GB SSD is available as an option

1 Built-in RAM

RAM is built into each of the amplifier modules to allow savings of up to 2 million samples. Increasing the number of channels does not decrease the data capture duration.

3 SD memory card

SD card slot (supports SDHC, up to 32GB) is standard on the main module. Captured data can be saved directly on the SD card when sampling speed is slower than 1ms (sampling speed: 1 k Samples/s). Supports hot-swap where SD memory card can be replaced during recording without any data loss.* The captured data can be transferred easily to the PC during offline condition.

* The hot-swap is possible when the sampling is slower than 100ms.

Maximum sampling speed and the data capturing time *1

Number of units, Max. sampling speed (interval) ttached to Attached to Attached to Capturing time when single module is attached (when 10 modules are attached Input Module Strage Device Attached to 1MS/s (1µs) 100KS/s (10µs) 1005/s (10ms) 1S/s (1s) 1KS/s (1ms) 5 to 10 modules 3 or 4 modules 1MS/s (1µs) 1 or 2 modules Built-in RAM (2Msamples) Built-in Flash memory (4GB) 20sec. (20se 23days (23days) 33min. (33min High-speed Voltage 72hrs. (10hrs.) 32days (4days) 3269days (440days) 1kS/s (1ms N/A N/A SD memory card (32GB)*2 SSD (128GB)*2 83hrs. (11hrs.) 34days (4days) 3495days (470days) Module 1MS/s (1µs) 500KS/s (2µs) 200KS/s (5µs) 4min. (N/A) 2sec. (2sec.) Built-in RAM (2Msamples) Built-in Flash memory (4GB) SD memory card (32GB)*2 33min. (33min.) 109hrs. (17hrs.) nin. (33min 23days (23days) 4577days (715days) S/s (1µs) High Voltage 45days (7days) N/A 1kS/s (1ms) N/A Module 117hrs. (18hrs.) 48days (7days) 4893days (764days) SSD (128GB)*2 1MS/s (<u>1µs)</u> 500KS/s (2µs) 200KS/s (5µs) 100kS/s (10µs) 4min. (N/A) 44min. (11min.) 20sec. (20sec.) Built-in RAM (2Msamples) 33min. (33min.) 23davs (23davs) 5hrs. (5hrs.) DCStrain*3 Built-in Flash memory (4GB) 72hrs. (13hrs.) N/A &Charg 1k5/s (1ms N/A SD memory card (3GB)*2 SSD (128GB)*2 Module 83hrs. (13hrs.) 34days (5days) 3495days (582days) 100kS/s (10µs) Built-in RAM (2M samples) Built-in Flashmemory (4GB) SD memory card (32GB)*2 33min. (33min.) 42hrs. (4hrs.) 23days (23days) 1760days (204days 5hrs. (5hrs.) Voltage Module 1kS/s (1ms) N/A N/A 1882days (218days) 45hrs. (5hrs.) 18days (2days) SD (128GB)*2 Built-in RAM (2Msamples) 23days (23days) Built-in Flash memory (4GB) SD memory card (32GB)*2 SSD (128GB)*2 Volt./Temp. 17days (2days) 1760days (204days 100S/s (10ms) N/A N/A N/A Module 18days (2days) 1882days (218days)

1 Capturing time values are approximately. Data is saved as GBD format files. When data is saved in CSV format, maximum sampling speed will be 10ms regardless of the captured destination and module type. Value of the capturing time is also different from above. (Data cannot be saved to built-in RAM using the CSV format.)
 *2 The file size of the captured data is limited up to 46B on firmware version 2.0 or later, 2GB on firmware version 1.6 or before.
 *3 Reference recording time is for up to 8 modules. (max 6L7-DCB and 6L7-CHA modules is 8.)

1 Captures the abnormal signal

The SD card can be replaced during recording when the sampling interval is 100ms or slower. When data capturing stops, the most recent data is stored in the memory. SD memory card exchange Ring CapitolRelay capture Ring capture Useful functions Creates data file up to 4GB continously without losing any recording. (Firmware version 2.0 or later : up to 4GB, Firmware version 1.6 or before : 2GB) *In firmware version 2.0 or later, data capacity or capturing time can be set flexibly by users. Specific value (measured value, alarm point) of a particular channel in the recorded data can be searched and found automatically. for data saving Data search and replay Movement by cursor The cursor can be moved automatically to a specified time in the recorded data.

• Statistical calculation with cursor The statistical calculation (average, max, min, P-P, effective value) can be determined in between the recorded data specified by the

Supports measurement and simulation testing using the voltage output module (GL7-DC0)

Allows a simulation testing by outputting the measured data from signals recorded from various input modules and outputs the data through the voltage output module (GL7-DC0).

Signals that are being captured may not be output at the same time The output current is max 10mA for each channel. Total output current of the unit is 40mA. If the target object needs to be driven by external power, than a power amplifier may be needed.



2 Outputs the saved data for driving equipment. and the signal of various points are measured simultaneously







DC Strain Module GL7-DCB



Main features

- Easily measure strain gauges using built-in bridge circuit for both 120 and 350 ohm gauges
- Supports excitation power for bridge circuit in constant voltage or current
- Supports TEDS sensors Supports a low-pass and anti-aliasing filter •
- Enable high-precision measurement in remote sensing and shunt calibration function



Supported sensor

Strain gauge : 1 gauge in 2-wire, 3-wire, or 4-wire 2 gauges in 3-wire, 4-wire, or 5-wire 4 gauges in 4-wire, or 6-wire

Strain type sensor : 4-wire or 6-wire

Main features



0hms

350 ohm5

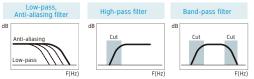


Eliminates the influence from the lead wire resistance Shunt calibration Gain compensation of strain measurement

Supports charge and voltage output type sensors Now compatible with microphones (Firmware version 2.0 or later) Supports TEDS sensors Wide variety of filter functions allows high-precision measurements Support RMS (effective value) measurement Charge Max. 100kS/s (10µs) Charge Voltag Setting sensor calibration value is unnecessary ! IEPE 4ch/unit Sensors and input connector type Charge output type sensor Supported acceleration sensor : 0.01pC/(m/s2) to 999.9pC/(m/s2) Max. 22V **F**I O \square (4mA) Subminiature Cable with Subminiature connector (plug), screw size #10-32 UNF connector (receptacle)

High-precision measurement using various filters

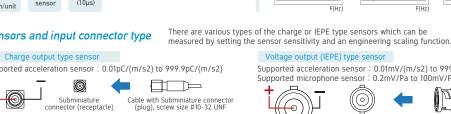
High-precision signal is able to be captured by the high-pass, low-pass, and anti-aliasing filter.

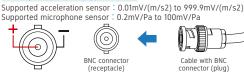


Voltage output(IEPI

Charge outpu type sensor







Output terminal

connecto

BNC

connector

SMA (SubMiniature version A)

0 0

00

00

0 0

Output terminal and conversion cable

Output cable with BNC connector (B-562)

Voltage Output Module GL7-DC0



Main features

- Recorded measurement data can be output as an analog voltage. and reproduce the measured anomalies and recorded data (Temperature, humidity, logic/pulse data is excluded.) • The reference signal for the test created by the GL-Wave Editor
- (EXCEL macro) can be output into an analog voltage (Signal: Sine wave, pulse wave (any duty ratio),
- ramp, triangle wave, simple arbitrary waveform, DC.)
 Output voltage: Max. 10V (Output current: Max ±10mA/ch or ±40mA/unit.)



* GL-Connection and GL-Wave Editor sloftware are standard accessories.
 * GBD is an abbreviation for Graphtec Binary Data.

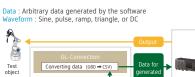
Three functions 1 Outputs the stored measuring data 2 Outputs the generated signal 3 Outputs the edited measuring data

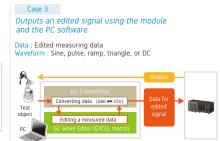


Method of analog voltage output

* Data that is currently recording cannot be output to the DCO module.



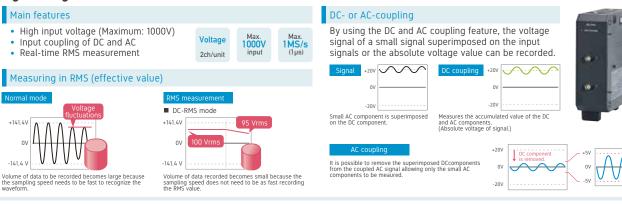








High Voltage Module GL7-HV



High Speed Voltage Module GL7-HSV

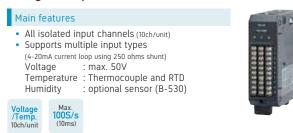
Main features

- All isolated input channels (4ch/unit)
- 1MS/s high speed simultaneous sampling
- Maximum input voltage 100V Supports low-pass filter

(1us)



Voltage/Temperature Module GL7-M



Supports one humidity sensor per module (B-530). Additional humidity sensors require an external power supply for the sensors.

Reliable measurement with useful functions

External 1/0 (Input/Output) and Alarm output

Output module is used for triggering, external sampling, start/stop, and auto-balance for input and output using the Input/Output cable for GL (B-513 optional). The signals related to the status of alarms are output from the terminal on the alarm output module.

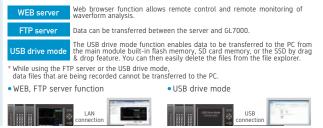
Alarm output terminal unit Alarm signal output terminal (No.1 to No.10) Alarm GND terminal Input/Output cable for GL (B-513)

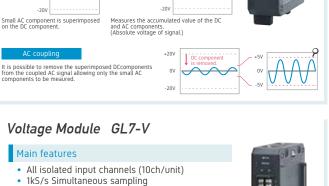


(pull-up resistance 10KΩ) Rating of the output element > Max. voltage: 50V • Max. current: 2.0 A Max. dissipation: 0.6W

Input • Start/Stop control (1ch) • External trigger (1ch) • External sampling (1ch) • Executing auto balance (1ch) Output. Trigger status (1ch)

WEB and FTP server for remote control and data transfer / Direct USB connection to the main unit







Logic/Pulse Module GL7-L/P

Main features

- Switching mode between logic or pulse 16ch/unit Logic mode: 1MS/s sampling,
- Pulse mode: 10kS/s sampling
- Available dedicated cabler Probe set for Logic input (RIC-10A)



Max. 10kS/s (100µs) Max. 1MS/s (1µs) Logic /Pulse 16ch/unit Attachable number of modules: up to 7 modules using Logic mode, up to 2 modules using Pulse mode. In the Pulse mode, there is a limitation of the sampling speed by the number of channels used.

Backup settings

The GL7000 has a function that periodically backs up recording data (refer to the chart below). Here, the user can set the conditions for data backup.

Backup Imag	e			Ethe	ernet			
						ic backup server. FTP server		
Measured	signal			GL7000	to SD m	-backup emory card. SD • SD memory card		
Destination	Back	up destin	ation	Backup	intervals	Off, 1, 2, 6, 12, 24 hour(s)		
of data	SD card							
Built-in flash memory	Yes	Yes	Yes		lestination	SD memory card, SSD, FTP		
SD memory card	No	Yes	Yes	 * You can not specify the same location as the backup destination. * When the recording format is "CSV", the backup function is not specify the same set of the same				
SSD	Yes	No	Yes	available. * When Ring rea	- cording is set to	on, the backup function is not avail	lable.	

NTP client function

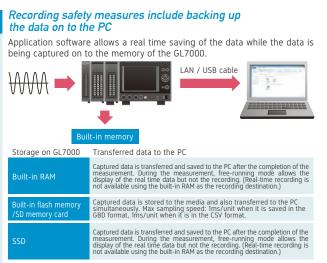
The clock on the GL7000 is periodically synchronized with the NTP server.

TI - 15 - 11-





High performance and useful software GL-Connection It is able to display in the format that cannot be displayed in the GL7000



Peal time recording on the PC can be saved as a CSV file while the data is saved as a GBD file on the main GL7000. Maximum sampling speed for this feature is Ims.

Display options

Allows YT waveform, XY waveform, digital monitoring and FFT measurement (same as the main GL7000 unit)



Useful functions for GL-Connection Software

Supports a user-friendly mouse movement that enables changes in the setting and the related display waveform

Display size of the waveform can be changed using a drag feature on the dotted line with the PC controlled mouse.

The scale of the waveform can be changed using the mouse wheel operation.



The position of the

Large-scale channel measurements

Up to 1120 channels can be recording using the PC platform 10 units of the GL7000 can be connected through 1 PC software using the LAN or the USB hub.

Up to 5 units of the GL7000 can be fully synchronized using the sync. cable

The start/stop trigger, and sampling can be synchronized in the GL7000 when they are connected by a sync cable. The master and slave units are automatically identified. Data is stored in each main unit individually.

Allows connections of Graphtec's midi LOGGER series Maximum channel is up to 2000 when 10 units of GL840 is connected midi LOGGER series

- GL2000, GL980, GL900-4 and GL900-8, GL840, GL820, GL240, GL220 can all be viewed in real time.

Customized screens for Data Acquisition Professionals

Various control and setting screens for simplified operation





Setup screen It is easily recognize the unit to be connected





Setting menu on the GL Connection software is similar to the setup screen on the GL7000.

Oscope/Oscope2 (ONO SOKKI)	
% GL7000 GBD data can be imported directly to Oscope.	

GL-Wave Editor (Excel macro)

Setting menu for the voltage output module

Setup for the output function using the GL7-DC0 module is set on the GL-Wave Editor (EXCEL macro) with customized data platform for specified measurement.

Multiple window option allows waveforms to be displayed in various forms * It is required version 2.20

Splits up to 4 windows and each window can display different format (Y-T, XY, FFT, and digits).





Quad windows displaying mixed format

Dual windows

Cursor Sinchronization When displaying multiple windows, the cursor positions can be synced.

Module Settings List* : Settings of multiple modules can be displayed simultaneously, and setting conditions can now be saved as CSV data.

Disable saving data to P selection for enabling or disabling data recording on the PC and only to the main unit GL7000.

Remote Lock On/Off Feature* : Setting operation is available on GL7000 under control of GL-Connection.

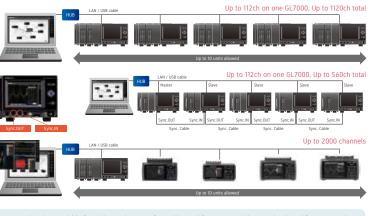
Optional Features Additional functions for data processing.

Distributes . The maximum, minimum, peak, and average values are displayed while capturing data. The value between the cursors of the maximum, minimum, peak, average, and RMS will be displayed when replaying selected data span. File operation

Data can be converted to CSV file format for a specified time period, or complete data, or multiple files. A file can also be created by compressing or consolidating multiple files.

Search : The search point can be set by the level, alarm, or time (the beginning of the data, center, end, trigger point, the specified time, instruction time, the number specified).

Send mail : Alarm warnings can be sent via Email.



SDK (Software Development Kit) is offered for free Software Development Kit (SDK) is available for real time data transfer and beyond for custom application developed for your need.

• USB driver • Manual (Main unit controls, data communication, data file, etc.) • Sample program (in Visual C++, Visual Basic, .NET framework) • Key commands have been set as modules for simpler implementation with LabVIEW. (Connection, Waveform Display, Digital Indicator, CSV conversion, file acquisition) < Higher module has added





Input / Output Module Specifications

Input method Sampling spe Built in RAM Measuremen Measuremen A/D converte Input impeda Maximum nput voltage	eed (interval) It range It accuracy (*1)	10 channels All channels isolated unbalanced input, Simultaneous sampling, Screw terminal (M3 sc 1 k Samples/s to 1 Sample/h (1 ms to 1 hr.) 2 million samples for each channel					
luilt in RAM Measuremen Measuremen VD converte hput impeda Maximum hput oltage	nt range nt accuracy (*1)	1 k Samples/s to 1 Sample/h (1 ms to 1 hr.)					
uilt in RAM leasuremen /D converte pput impeda laximum pput oltage	nt range nt accuracy (*1)	2 million samples for each channel					
Aeasuremen <u>VD converte</u> nput impeda Aaximum nput roltage	nt accuracy (*1)						
VD converte nput impeda 4aximum nput roltage	or.	100, 200, 500 mV, 1, 2, 5, 10, 20, 50, 100 V, ±0.25% of Full Scale	, and 1-5 V Full Scale				
Aaximum nput roltage			ctive resolution: 1/40000 of the measuring full range				
voltage	Between (+)/(-) termin	al 100 mV to 1 V range: 60 Vp-p,2 V to 100 V	range: 100 Vp-p				
	Between channels ((-) termini Between channel/GN						
Max. voltage	Between channels	1000 Vp-p (1 minute)					
(withstand) solation	Between channel/GN Between input/GN						
Common-ma Frequency re	ode rejection ratio	Min. 90 dB (50/60 Hz, Signal source imped DC to 1 kHz (+1/-3 dB)	dance: Max. 300 Ω) DC to 200 kHz (+1/-3 dB)				
Filter	Low pass	Off, Line(1.5 Hz), 5, 50,	Off, Line(1.5 Hz), 5, 50, 500, 5k,				
External dime	ensions (W×D×H)	500 Hz (at -3 dB, 6dB/oct) Approx. 49 x 136 x 160 mm (Excluding pro	50k Hz (at -3 dB, 6dB/cot) jections)				
veight		Approx. 840 g	Approx. 740 g				
1odel numbe		GL7-M					
Number of in nput methoo	put channels	10 channels All channels isolated balanced input. Scan	s channels for sampling, Screw terminal (M3 screw				
Sampling spe Built in RAM		100 Samples/s at 10ch to 1 Sample/h (10 n					
leasurement	Voltage	2 million samples for each channel 20, 50, 100, 200, 500 mV, 1, 2, 5, 10, 20, 50 Thermocouple: K, J, E, T, R, S, B, N, and W	0 V, and 1-5 V Full Scale				
ange	Temperature	Thermocouple: K, J, E, T, R, S, B, N, and W RTD: Pt100, JPt100 (JIS), Pt1000 (IEC751)	(WRe5-26)				
	Humidity (*2)	0 to 100 % RH, using optional humidity ser	nsor (B-530)				
	Voltage Temperature Thermocoup	±0.1% of Full Scale le Measurement range	Measurement accuracy				
, ())	R/S	0 ≤ TS ≤ 100°C	± 5.2°C				
		100 < TS ≤ 300°C R: 300 < TS ≤ 1600°C	± 3.0°C ± (0.05% of reading + 2.0°C)				
	B	S: 300 < TS ≤ 1760°C 400 ≤ TS ≤ 600°C	± (0.05% of reading + 2.0°C) ± 3.5°C				
		600 < TS ≤ 1820°C	± (0.05% of reading + 2.0°C)				
	К	-200 ≤ TS ≤ -100°C -100 < TS ≤ 1370°C	± (0.05% of reading + 2.0°C) ± (0.05% of reading + 1.0°C)				
	E	-200 ≤ TS ≤ -100°C	± (0.05% of reading + 1.0 C) ± (0.05% of reading + 2.0°C) ± (0.05% of reading + 1.0°C)				
	Т	-100 < TS ≤ 800°C -200 ≤ TS ≤ -100°C	± (0.1% of reading + 1.5°C)				
		-100 < TS ≤ 400°C	± (0.1% of reading + 0.5°C) ± 2.7°C				
	,	-200 ≤ TS ≤ -100°C -100 < TS ≤ 100°C	± 1.7°C				
	N	100 < TS ≤ 1100°C -200 ≤ TS < 0°C	± (0.05% of reading + 1.0°C) ± (0.1% of reading + 2.0°C)				
		0 ≤ TS ≤ 1300°C 0 ≤ TS ≤ 2000°C	± (0.1% of reading + 1.0°C)				
	W Reference	Junction Compensation (R.J.C.) accuracy: ±0.	± (0.1% of reading + 1.5°C) 5°C				
	* Wire size RTD	of thermocouple used is 0.32 mm diameter Measurement range	in the T type and 0.65 mm diameter in other type Driving current Accuracy				
	Pt100	-200 to 850°C (E.S. = 1050°C)	1 mA ±1.0°C				
	JPt100 Pt1000	-200 to 500°C (F.S. = 700°C) -200 to 500°C (F.S. = 700°C)	1 mA ±0.8°C 0.2 mA ±0.8°C				
R.J. Compens A/D converte	sation	Select internal or external Sigma-Delta type, 16 bits (effective resolut	ion: 1/40000 of the measuring full range)				
nput impeda	ince	1 MΩ ±5%	issues, source measuring full langer				
nput	Between (+)/(-) termin Between channels ((-) termina						
/oltage	Between channel/GN Between channels						
withstand)	Between channel/GN	D 350 Vp-p (1 minute)					
	Between input/GNI ode rejection ratio	Min. 50 MΩ (at 500 V DC) Min. 90 dB (50/60 Hz, Signal source impedance: Max. 300 Ω)					
ilter	Moving average	Off, 2, 5, 10, 20, 40					
		the data sampled in the sub-sample (5 se	conds) will be used for creating the average value				
5 V output External dime	ensions (W×D×H)	Driving the humidity (*2) sensor B-530, 1 o Approx. 49 x 136 x 160 mm (Excluding pro					
√eight		Approx. 770 g					
Model numbe		GL7-HV					
	iput channels	2 channels	nultaneous sampling, Isolated BNC connector				
Sampling spe		1 M Samples/s to 1 Sample/h (1 µs to 1 hr.)	instance a sumpling, isolated bite connector				
Built in RAM nput couplin	g and measuremen	2 million samples for each channel t AC, DC, AC-RMS, DC-RMS					
Measurement	DC, AC	2, 5, 10, 20, 50, 100, 200, 500, 1000 V Full					
°.	DC-RMS, AC-RMS	1, 2, 5, 10, 20, 50, 100, 200, 500 Vrms Full Scale (Crest Factor: up to 4 in 1 to 200 Vrms range, up to 2 in 500 Vrms range)					
Measurement accuracy (*4)	DC, AC DC-RMS	±0.25% of Full Scale Sine wave measurement					
Accoracy (4)	SC-N-D	±0.5% of Full Scale (at 20 Hz ≤ F ≤ 1 kHz)					
		±1.5% of Full Scale (at 1 kHz < F ≤ 20 kHz) Response time: 500ms (Crest Factor is up	to 4)				
	AC-RMS	Sine wave measurement					
		$\pm 0.5\%$ of Full Scale (at 100 Hz \leq F \leq 1 kHz) $\pm 1.5\%$ of Full Scale (at 1 kHz < F \leq 20 kHz)					
V/D convert		Response time: 500 ms (Crest Factor is up to 4)					
A/D converte	:1	Successive Approximation type, 16 bits (effective resolution: 1/40000 of the measuring full range in the DC and AC coupling,					
nput impeda	ance	1/20000 of the measuring full range in the 1 MΩ ±5%					
Maximum	Between (+)/(-) termin	al 1000 Vp-p					
nput voltage	Between channels ((-) termina Between channel/GN						
1ax. voltage	Between channels	2300 Vrms AC (1 minute)					
solation	Between channel/GNE Between input/GNE	Min. 50 MΩ (at 500 V DC)					
ommon-mo requency re	de rejection ratio	Min. 90 dB (50/60 Hz, Signal source imped DC Coupling: DC to 200 kHz (+1/-3 dB)	lance: Max. 300 Ω)				
		AC Coupling: UC to 200 kHz (+1/-3 dB) AC Coupling: 4Hz to 200 kHz (+1/-4.5 dB) OFF, Line (1.5 Hz), 5, 50, 500, 5k, 50k Hz (a					
	Low pass ensions (W×D×H)	OFF, Line (1.5 Hz), 5, 50, 500, 5k, 50k Hz (a Approx. 49 x 136 x 160mm (Excluding proj	at -3 dB, 6dB/oct)				
ternal dime		Approx. 740 g					
External dime		a E 9C a lufton 20 minutes or more brown in	cod after newer was turned an a filter is carted in				
External dime Weight *1) Subject	t to the conditions:		sed after power was turned on. • Filter is set to LIN				
External dime Weight *1) Subject • Room • Samp	temperature is 23 ° bling rate is set to 1 :	econd. • GND terminal is connected to groun	iu.				
External dime Weight *1) Subject • Room • Samp *2) Using c	temperature is 23 ° bling rate is set to 1 optional humidity se		u.				
xternal dime weight *1) Subject • Room * Samp *2) Using c *3) <u>Subject</u> • Room	temperature is 23 ° bling rate is set to 1 optional humidity set to the conditions: temperature is 23 °	nsor (B-530) C ± 5 °C. • When 30 minutes or more have ela	apsed after power was turned on. • Filter is set to 1				
External dime Weight *1) Subject • Room • Samp *2) Using c *3) <u>Subject</u> • Room • Samp	a temperature is 23 ° bling rate is set to 1 optional humidity set to the conditions: a temperature is 23 ° bling rate is set to 1	nsor (B-530)	apsed after power was turned on. • Filter is set to 1				
xternal dime weight *1) Subject • Room • Samp *2) Using c *3) <u>Subject</u> • Room • Samp *4) <u>Subject</u> • Room	a temperature is 23 ° bling rate is set to 1 pptional humidity set to the conditions: a temperature is 23 ° bling rate is set to 1 to the conditions; a temperature is 23 °	nsor (8-530) C ± 5 °C. • When 30 minutes or more have eli econd. • GND terminal is connected to grout C ± 5 °C. • When 30 minutes or more have ela	apsed after power was turned on. • Filter is set to 1 nd. psed after power was turned on. • Filter is set to 1				
xternal dime Weight *1) Subject • Room • Samp *2) Using c *3) <u>Subject</u> • Room • Samp *4) <u>Subject</u> • Room • GND tt *5) Availab	a temperature is 23 ° bling rate is set to 1: optional humidity set to the conditions:. a temperature is 23 ° bling rate is set to 1: to the conditions:. a temperature is 23 ° terminal is connected to ble ranges vary by th	nsor (8-530) C ± 5 °C. • When 30 minutes or more have eli econd. • GND terminal is connected to grout C ± 5 °C. • When 30 minutes or more have ela	apsed after power was turned on. • Filter is set to 1				

Model numb		ns GL7-DCB					
Number of ir	nput channels dAll channels isolated	4 channels balanced input, Simultaneous sampling, D-SUB type connector (9 pins, receptacle)					
	eed (interval)	100 k Samples/s to 1 Sample/h (10 μs to 1 hr.)					
nput type Measurement	Strain (*5)	2 million samples for each channel Strain, Voltage, Resistance value (including potentiometer) 500, 1000, 2000, 5000, 10000, 20000 µc (µc: 10-6 strain)0.2, 0.25, 0.4, 0.5, 1, 2, 2.5, 4, 5, 10 mV/V					
ange	Voltage Resistance	1, 2, 5, 10, 20, 50, 100, 200, 500 m/, 1, 2, 5 V Full Scale 1, 2, 5, 10, 20, 50, 100, 200, 500 Ω, 1, 2, 5 V Full Scale					
Measurement	Strain	+(0.2% of Full Scale + 10 μV) ±(0.2% of Full Scale + 10 μV)					
eccuracy (*4)	Resistance	±0.5% of Full Scale (More than 1 hour elapsed after power-on)					
A/D converte Gauge ratio		Successive Approximation type, 16 bits (effective resolution: 1/40000 of the measuring full rang 2.0 constant					
Supported sensor	Strain (*6)	Strain gauge Quarter bridge (single gauge) in 2-, 3- or 4-wire (supports remote sensing in 3- or 4-wire) Half bridge (dual gauge) in 3-, 4-, 5-wire (supports remote sensing in 4- or 5-wire) Full bridge (gauge) in 4- or 6-wire (supports remote sensing in 6-wire) Transducer/sensor based on a strain gauge Full bridge type in 4-wire, Full bridge type in 6-wire (supports remote sensing)					
Bridge resist	Resistance	Resistor, Potentiometer 50 Ω to 10 k Ω * Available excitation power varies by selection of element.					
	ent of the bridge (*7) Voltage mode	120 or 350 Ω for the quarter- and half-bridge 1, 2, 2.5, 5, 10 V DC					
ower	Current mode	Excitation voltage 5 and 10 V is available when bridge resistance is the 350 Ω or higher. Constant current: 0.1 to 20 mA (supported voltage is up to 10 V.)					
ero Adjust	Method Max. Range	Euly automatic (via push button or setting the condition menu) ±10,000με (με: 10-6 Strain)					
Remote sens	sing	3- or 4-wire in quarter bridge, 4- or 5-wire in half bridge, 6-wire full bridge					
ihunt Calibra 1aximum	Between (+) / (-) terminal	Approx. 60 kΩ (120 Ω gauge), Approx. 175 kΩ (350 Ω gauge) 10 V, Common-mode voltage: 10 Vrms AC					
input Between channels ((-) terminals) voltage Between channel / GND		10 Vp-p 60 Vp-p					
1ax. voltage withstand)	Between channels Between channel / GND	1000 Vp-p (1 minute) 1000 Vp-p (1 minute)					
solation Common-mo	Between channel / GND ode rejection ratio	Min. 100 MΩ (at 500 V DC) Min. 80 dB (50/60 Hz, Signal source impedance: Max. 300 Ω)					
requency re ilter	esponse Low pass	DC to 20 kHz Off, Line (1.5 Hz), 3, 6, 10, 30, 50, 60, 100, 300, 500 Hz, 1k, 3k, 5k, 10k Hz (in -30dB/oct)					
upport	Anti-aliasing Standard	Off, On IEEE 1451.4 Class2 (Temperate No.33)					
EDS	Support ensions (W x D x H)	Reading information from the sensor and setting it to module Approx. 49 x 136 x 160mm (Excluding Protection)					
veiaht		Approx. 840 g					
	t Module Specification: er	GL7-CHA					
nput metho	nput channels d	4 channels All channels isolated unbalanced input, Simultaneous sampling,					
ampling sp	eed (interval)	BNC and Miniature connector (#10-32UNF) 100 k Samples/s to 1 sample/h (10 µs to 1 hr.)					
Built in RAM nput type		2 million samples for each channel Sensor in charge output type, Sensor in IEPE type, Voltage, Microphone(*8)					
nput couplir	ng	Sensor: Charge-RMS, IEPE-RMS Voltage: DC, AC, DC-RMS, AC-RMS					
leasurement ange	Acceleration sensor input Microphone(*8)	1, 2, 5, 10, 20, 50, 100, 200, 500, 1000, 2000, 5000, 10000, 20000, 50000 m/s ² 200, 400, 500mPa, 1, 2, 4, 5, 10, 20, 40, 50, 100, 400, 500Pa					
5	Voltage input	DC, AC coupling: 50, 100, 200, 500 mV, 1, 2, 5, 10 V RMS measurement: 20, 50, 100, 200, 500 mVrms, 1, 2, 5 Vrms					
upported	Charge output type	(Crest Factor in RMS measurement: up to 4 in 20 mVrms to 2 Vrms range, up to 2 in 5 Vrms range 0.01 pC/(m/s ²) to 999.9 pC/(m/s ²) Effective range of measurement range varies depending					
ensor		on sensor sensitivity. 0.01 mV/(m/s ²) to 999.9 mV/(m/s ²) Effective range of measurement range varies depending					
ensitivity	IEPE type	on sensor sensitivity.					
	Microphone(*8) Charge output type	0.2mV/Pa to 100mV/Pa ±0.9% of Full Scale ([sensor sensitivity] × [setting range] ≥ 20 pC)					
accuracy (*4) A/D converte	er	±0.25% of Full Scale ([sensor sensitivity] × [setting range] ≥ 200 mV) Successive approximation type, 16 bits (effective resolution: 1/40000 of the measuring full range					
nput impeda Excitation po	ower	100 kΩ ±5% 4 or 8 mA (supported voltage: 22 V ±10%)					
<u>laximum in</u> laximum	put charge signal Between (+) / (-) terminal	Max. 50000 pC 25 Vp-p					
nput oltage	Between channels ((-) terminals) Between channel / GND	25 Vp-p 25 Vp-p					
lax. voltage withstand)	Between channels Between channel / GND	300 Vp-p (1 minute) 300 Vp-p (1 minute)					
solation	Between input / GND ode rejection ratio	Min. 50 MΩ (at 500 V DC) Min. 80 dB (50/60 Hz, Signal source impedance: Max. 300 Ω)					
requency esponse	Charge type	1 Hz to 45 kHz					
ilter	IEPE type Hi pass	Off, 0.15, 1, 10 Hz (It depends on input conditions.)					
	Low pass Anti-aliasing	Off, Line (1.5 Hz), 3, 6, 10, 30, 50, 60, 100, 300, 500 Hz, 1k, 3k, 5k, 10k Hz (in -30dB/oct) Off, On					
upport EDS	Standard Support	IEEE 1451.4 Class1 (Temperate No.25 for sensor, Temperate No.27 for microphone) Reading information from the sensor and setting it to module					
alculation f	unction	Integration (convert measurement to velocity), Double Integration (convert measurement to displacement)					
External dim Veight	iensions (W x D x H)	Approx. 49 x 136 x 160mm (Excluding projections) Approx. 850 g					
/oltage Outp /odel numb	out Module Specificatio	GL7-DC0					
lumber of o Output meth	utput channels	8 channels All channels common ground, SMA (Sub-miniature version A) connector					
	eed (interval) Source of data	Measurement data, Edited measurement data, Generated arbitrary data(*9),					
ondition	Source of	Generated and tag build measurement data, Generated and tag data(">), Generated simple waveform (DC voltage and sine, triangle, ramp, pulse waveform) Module of Voltage (GL7-V), Voltage/Temperature (GL7-M), High speed voltage (GL7-HSV),					
Dutput	Voltage	House on Votage (6:74-79), Votage 7(6:72-68), and Charge (6:7-744), High votage (6:74-79), DC strain (6:72-68), and Charge (6:7-744). Signal can be measured by the input module even while the signal is output from the DCO mod Measurement data except the temperature, humidity and logic/pulse are able to output. = 1, 2, 5, 10 V Full Scale					
ange Jutput impe	Current	Up to \pm 10 mA in each channel (total output current of unit is up to 40 mA.) Max. 1 Ω					
) /A convert	al accuracy (*10)	±0.25% of Full Scale Resolution 16 bits (effective resolution: 1/20000 of the output full range)					
ilter	Low pass	OFF, Line(1.5 Hz), 5, 50, 500, 5k, 50k Hz * This filter is the smoothing filter to remove the noise on output of the D/A converter.					
xternal dim /eight	ensions (W x D x H)	Aprox. 49 x 136 x 160mm (Excluding projections) Approx. 770g					
ogic/Pulse	Input Module specifica	tions // Og					
	nput channels	16 channels					
ampling	Logic mode	All channels common ground, Simultaneous sampling, Circular connector (4ch/connector)(1 M Samples/s to 1 Sample/h (1 µs to 1 hr.)					
uilt-in RAM	Pulse mode	10 k Samples/s to 1 Sample/h (100 µs to 1 hr.) 2 million samples for each channels					
leasuremer ulse input r		Logic input mode or Pulse input mode (*12) Rotation count (RPM), Accumulating count, Instant count					
otation ount (RPM)	Function	Counting the number of pulses per sampling interval and then it is converted to RPM 50, 500, 5000, 50 k, 500 k, 5 M, 50 M, 500 M rpm Full Scale					
ccumulating	Function Span	Accumulating the number of pulses from the start of measurement 50, 500, 500, 500 k, 500 k, 5 M, 50 M, 500 M counts Full Scale					
nstant	Function	Sol, Solo, Solo, Solo, Solo, Solo, Solo, Solo, Solo M, Solo M, Collis Folit Scale Counting the number of pulses per sampling interval (count is reset at each sampling) [50, Solo, Solo, Solo, Solo, Solo, Solo M, Solo M, counts Full Scale					
ount	Span umber of count	50, 500, 500, 500, 500 K, 5 M, 50 M, 50 M, 500 M counts Full Scale 15 M counts (24 bits counter is used) 0 to 24 V (common ground)					
laximum nu							
laximum nu	Voltage range Signal type	Contact (Relay), Open collector, Voltage					
laximum nu		Contact (Relay), Open collector, Voltage Approx. 2.5 V Approx. 0.5 V (2.5 V to 3 V) Off or On (-3 dB at 50 Hz)					

(*5) Available ranges vary by the excitation power for the bridge.
(*6) • Remote sensing is not available when a NDIS connector is used.
• When a bridge box is used, the connection needs to be 4-wire of *a*-wire full bridge.
• When connecting with a Half bridge (poposite side), an additional bridge box is required.
• Bridge excitation: Constant current drives a strain gauge type sensor or a 4-wire full bridge.
• The shrunt calibration is available only when the connection is using a 3-wire, 4-wire quarter bridge, 5-wire full bridge, or 6-wire full bridge.
• The shrunt calibration is available only when the connection is using a 3-wire, 4-wire quarter bridge, 5-wire full bridge, or 6-wire full bridge.
• (*7) When the built-in resistor 1200 is used for bridge, the available excitation voltage is 1V, 2V, or 2.5V. The gauge type and used built-in resistor for bridge can be set by a DIP-SW which is located on the front panel of the module.
(*8) It is required from a tervision 2.0 or later.
(*9) It is required from a tervision 2.0 or later.
(*10) Subject to the conditions. • Room temperature is 23 °C = 5 °C.
(*11) input prove (RIC-10A) is equired to come tignals.
(*12) input prove (RIC-10A) is equired to come tignals.
(*12) in to grow (RIC-10A) is the input of (16 channels).
(*12) In to grow due 0.7 modules (Up to 12ch) can be attached to one main module.
(*12) The maximum number of module and channels are limited to up to 10 units with a mixed condition and 112 channels.





xternal Input, Output	odule	Description Attached to up to 10 modules (*1), Max. 112 channels in 1 of GL7000				
	/ Input	Attached to up to 10 modules (*1), Max. 112 channels in 1 of 6L7000 Start/Stop, External trigger, External sampling, Auto balance (*3) Signal type: Contact (relay), Open collector, Voltage				
ignals (*2)	Output	Trigger, Busy (*3), Alarm (10 channels) (*4) Signal type: Open collector (pulled-up by resistor 10 kΩ)				
Trigger, Alarm	Trigger action Trigger repeat	Start or Stop capturing data by the trigger Enabled (ON): Automatically re-armed for the next data capture function				
unction		Disabled (OFF): Data capture is completed in a single trigger (Hold off repeat action in specified period: Previous start to next start, previous stop to next start)				
	Trigger source	Start: Off, Measured signal, Alarm, External signal, Clock, Week or Time Stop: Off, Measured signal, Alarm, External signal, Clock, Week or Time				
	Trigger determination conditions for	Combination: OR or AND condition at the level of signal or edge of signal Analog: Higher/Rising, Lower/Falling, Window-in, Window-out				
	measured signal	Logic (*5): Higher/Rising, Lower/Falling Pulse (*5): Higher/Rising, Lower/Falling, Window-in, Window-out				
	Alarm determination	Combination: OR or AND condition at the level of signal or edge of signal Analog: Higher/Rising, Lower/Falling, Window-in, Window-out				
	condition (*6)	Logic (*5): Higher/Rising, Lower/Falling Pulse (*5): Higher/Rising, Lower/Falling, Window-in, Window-out				
	Alarm output Pre-trigger (*7)	10 channels Number of data before trigger: Up to specified number of captured data				
alculation unction	Between channels	Addition, Subtraction, Multiplication and Division for two analog inputs (Sampling speed is limited up to 10 Samples/s (100 ms interval).				
	Statistical	Available arithmetic element and the output destination is the analog input channel 1 to 100.) Select two calculations from Average, Peak, Max., Min. in real time and replay (*8)				
earch functio	of the display range	Search for analog signal levels, logic signal pattern, pulse signal levels or alarm point in captured data				
nnotation fu lessage / Ma	nction arker functions	Comment can be set in each channel (up to 31 alphanumeric characters) Message: The registered messages or entered message is able to be recorded for any timing.				
		Up to 8 messages can be pre-registered. Marker: Marker is able to record for occurring alarm or power failure. Resume automatically in the same condition after power is recovered				
esume		as when the power failure occurred during data capture (*9)				
FT analysis Inction	Analyzing frequency rang Number of points	e 0.08, 0.2, 0.4, 0.8, 1.6, 2, 3.2, 4, 8, 20, 40, 80, 200, 400, 800 Hz, 2, 4, 8, 20, 40, 80, 200, 400 kHz 500, 1000, 2000, 4000, 10000				
firmware ver 20 or later)	Averaging	Rectangular, Hanning, Hamming, Blackman, Flat-top, Exponential Summation average, Exponential average, Peak hold				
	Channels Functions	4 channels Y-T, Linear, Power, PSD, Cross, Transfer function, Coherence, COP Single display, Dual display, Nyquist				
terface to P	Display mode	Ethernet (10 BASE-17100 BASE-1X), USB 2.0 (High speed)				
etwork func SB drive mo	tion de	WEB server, FTP server, FTP client, NTP client, DHCP client Emulate the USB memory device (*10)				
torage evice	Built-in External (*12)	RAM (2 million samples, built-in amplifier module), Flash memory (4 GB, built-in the main module) (*11) SD card (Support SDHC, up to 32GB) slot, SSD (Approx. 128GB (*11))				
lata saving	Sampling speed	The file for capturing data is limited up to 4GB. (*13) 1 MS/S(1 million samples per second) to 1S/h (1 sample per hour), and synchronized with external sampling signal				
inction	(interval)	(Interval: 1, 2, 5, 10, 20, 50, 100, 200, 500 μs, 1, 2, 5, 10, 20, 50, 100, 200, 500 ms, 1, 2, 5, 10, 20, 30, 1, 2, 5, 10, 20, 30 min, 1 hur)				
		* The maximum sapling speed (minimum sampling interval) is different depending on the type of module. * Sampling can be set up to the fastest speed among multiple type connected modules.				
		* The maximum sampling speed (minimum sampling interval) varies depending on the specified recording destination.				
		Built-in RAM: up to 1 MS/s (1 us interval) SSD module: up to 500 KS/s (2 us interval) at 1 or 2 modules installed, up to 200 KS/s (5 us interval) at 3 or 4 modules installed, up to 1 KS/s (1 ms interval) at 5 or 10 modules installed				
		Built-in Flash memory: up to 1 MS/s (1 µs interval) External SD Flash memory: up to 1 kS/s (1 ms interval)				
	Captured data (*12 Data in built-in RAM	Specified number of data up 2 million samples in increments of 1				
	Auto save (*12)	Available for the built-in RAM Enabled (ON): Data in the RAM is saved automatically to the built-in Flash, SD memory card, SSD				
	Capturing mode (*1)	Disabled (OFF): Data in the RAM is not maintained after power is turned off Mode: Off, Normal, Ring, Relay				
		Ring (*14): Saved most recent data (Number of capturing data: 1000 to 2000000 points, Destination of data: Built-in RAM, Built-in Flash, SD memory card, SSD)				
		Relay (*13,*15): Saved data to multiple file without losing data until capturing data is stopped (Destination of data: Built-in Flash, SD memory card, SSD)				
	During data capture (*17 Backup (*12)	Backup interval: Off, 1, 2, 6, 12, 24 hrs.				
		Data destination: SD memory card, SSD, FTP server Data destination for backup cannot be specified to the same storage for destination of capturing data.				
	Dual sampling	It enables to record signal with two sampling speed. While the signal is recorded with low speed sampling for long term recording, the transient part is recorded with high speed sampling after the trigger occurs.				
		for long term recording, the transient part is recorded with high speed sampling after the trigger occurs. Carrent (Low-speed) Recording media : Built-in flash memory or SD card				
	sampling	for long term recording, the transient part is recorded with high speed sampling after the trigger occurs. Carrent (Low-speed) Recording media : Built-in flash memory or SD card Sampling interval : 1, 2, 5, 10, 20, 50, 100, 125, 200, 250, 500ms, 1, 2, 5, 10, 20, 30s, 1, 2, 5, 10, 20, 30min, 1h Trigger timer facture: Starting time, Stopping time, Repeat recording				
	sampling	[or long term recording, the transient part is recorded with high speed sampling after the trigger occurs. Carrent (Low-speed) Recording media : Built-in flash memory or SD card Sampling interval : 1, 2, 5, 10, 20, 50, 100, L52, 200, 250, 500ms, 1, 2, 5, 10, 20, 30s, 1, 2, 5, 10, 20, 30min, 1h Trigger timer feature: Starting time, Stopping time, Repeat recording Event (High-speed) Recording media : Built-in RAM or SSD (optional)				
ngineering s	sampling	for long term recording, the transient part is recorded with high speed sampling after the trigger occurs. Carrent (Low-speed) Recording media : Built-in flash memory or SD card Sampling interval : 1, 2, 5, 10, 20, 50, 100, 125, 200, 250, 500ms, 1, 2, 5, 10, 20, 30s, 1, 2, 5, 10, 20, 30min, the Trigger timer feature: Starting times. Stopping time, Repeat recording Event (high-speed) Recording media : Built-in RAM or SSD (optional) Sampling interval : 1, 2, 5, 10, 20, 50, 100, 200, 500 us Measured Value can be converted to the engineering unit				
ngineering s	sampling function (*18)	for long term recording, the transient part is recorded with high speed sampling after the trigger occurs. Carrent (Low-speed) Recording media : Built-in flash memory or SD card Sampling interval : 1, 2, 5 10, 20, 50, 100, 125, 200, 250, 500ms, 1, 2, 5 10, 20, 30s, 1, 2, 5, 10, 20, 30min, the Trigger timer feature: Starting time. Stopping time, Repeat recording Event (high-speed) Recording media : Built-in RAM or SSD (optional) Sampling interval : 1, 2, 5, 10, 20, 50, 100, 200, 500, s0 Measured Value can be converted to the engineering unit Analog voltage: Converts by four reference points (gain, offset) Temperature: Converts by four reference points (Gaiter, 0)				
ynchronizati	sampling function (*18) cale function	for long term recording, the transient part is recorded with high speed sampling after the trigger occurs. Carrent (Low-speed) Recording media - Built-in flash memory or SD card Sampling interval : 1, 2, 5, 10, 20, 100, 125, 200, 200, 500ms, 1, 2, 5, 10, 20, 30s, 1, 2, 5, 10, 20, 30min, 1h Trigger timer feature: Starting time. Stopping time, Repeat recording Recording media - Built-in RAM or SSD (optional) Sampling interval : 1, 2, 5, 10, 20, 50, 100, 200, 200, 500 Measured value can be converted to the engineering unit Analog voltage: Converts by two reference points (gain, Offset) Temperature: Converts by two reference points (offset) Puble count: Converts by two reference points (gain)				
ynchronizati Iperating env	sampling function (*18) cale function on between units fronment	for long term recording, the transient part is recorded with high speed sampling after the trigger occurs. Carrent (Low-speed) Recording media : Built-in flash memory or SD card Sampling interval : 1, 2, 5, 10, 20, 100, 125, 200, 250, 500ms, 1, 2, 5, 10, 20, 30s, 1, 2, 5, 10, 20, 30min, the Frequent (High-speed) Recording media : Built-in RAM or SSD (optional) Sampling interval : 1, 2, 5, 10, 20, 50, 100, 200, 500 us, 1 Sampling interval : 1, 2, 5, 10, 20, 50, 100, 200, 500 us, 1 Measured Value can be converted to the engineering unit Analog voltage: Converts by four reference points (gain, Ofset) Temperature: Converts by two reference points (gain) Start and Trigger (*16) 0 to 400°C, 5 to 63% RH (non condensed) 100 to 2420 vAC, 5 to coh/tz				
ynchronizati perating en ower source ower consur tandard acce	sampling function (*18) cale function on between units vironment mption essories	for long term recording, the transient part is recorded with high speed sampling after the trigger occurs. Carrent (Low-speed) Recording media - Built-in flash memory or SD card Sampling interval : 1, 2, 5, 10, 20, 90, 100, 70, 200, 205, 500, 50, 1, 2, 5, 10, 20, 30s, 1, 2, 5, 10, 20, 30min, 1h Trigger timer feature: Starting time, Stopping time, Repeat recording Event (High-speed) Recording media - Built-in RAM or SSD (optional) Sampling interval : 1, 2, 5, 10, 20, 50, 100, 200, 500ys Measured value can be converted to the engineering unit Analog voltager. Converts by fuor reference points (gain) Start and Trigger ("bit) Dio 10 26/07. S to 85% RH (non condensed) 100 10 240. C, DENDA, C, Dower cable				
ynchronizati Iperating env ower source ower consur tandard acce xternal dime	sampling function (*18) cale function on between units vironment	for long term recording, the transient part is recorded with high speed sampling after the trigger occurs. Carrent (Low-speed) Recording media - Built-in flash memory or SD card Sampling interval : 1, 2, 5, 10, 20, 100, 125, 200, 250, 500ms, 1, 2, 5, 10, 20, 30s, 1, 2, 5, 10, 20, 30min, 1h Trigger timer feature: Starting time, Stopping time, Repeat recording Recording media - Built-in RAM or SSD (optional) Sampling interval : 1, 2, 5, 10, 20, 50, 100, 200, 500us Measured value can be converted to the engineering unit Analog voltager. Converts by fuor reference points (gain) Start and Trigger ("Ib) Dio to 240 V AC, 50 to 60Hz 100 to 126 VC, 50 to 60Hz 100 to 420, C, 50 HX, 60Hz 100 Addr., CD-ROM, AC power cable Maim output: C, CD-ROM, AC power cable Maim output: C, CD-ROM, AC power cable Maim output: C, Dir ROM, AC power cable				
ynchronizati perating eny ower source ower consur tandard acce xternal dime /eight	sampling function (*18) cale function cale function cale function proton essories msions (W x D x H)	lor Long term recording, the transient part is recorded with high speed sampling after the trigger occurs. Carrent (Low-speed) Recording media - Built-in flash memory or SD card Sampling interval : 1, 2, 5, 10, 20, 100, 125, 200, 250, 500ms, 1, 2, 5, 10, 20, 30s, 1, 2, 5, 10, 20, 30min, Ih Trigger timer feature: Starting time, Stopping time, Repeat recording Event (High-speed) Recording media - Built-in RAM or SSD (optional) Sampling interval : 1, 2, 5, 10, 20, 50, 100, 200, 500 us Messured value can be converted to the engineering unit Analog voltage: Converts by two reference points (gain) Start and Trigger (*16) 100 to 40°C, 50 to 60Hz 100 to 40°C, 50 to 60Hz 100 VAC, 50 to 60H				
ynchronizati perating env ower source ower consur tandard acce xternal dime (eight 1) Excludin In case	sampling function (*18) cale function on between units vironment pption ressons (W x D x H) g the function modu of the 1 lonic/Pulse m	for long term recording, the transient part is recorded with high speed sampling after the trigger occurs. Carrent (Low-speed) Recording media - Built-in flash memory or SD card Sampling interval : 1, 2, 5, 10, 20, 100, 125, 200, 250, 500ms, 1, 2, 5, 10, 20, 30s, 1, 2, 5, 10, 20, 30min, 1h Trigger timer feature: Starting time, Stopping time, Repeat recording Event (High-speed) Recording media - Built-in RAM or SSD (optional) Sampling interval : 1, 2, 5, 10, 20, 50, 100, 200, 500 ys Measured value can be converted to the engineering unit Analog voltage: Converts by two reference points (gain) Start and Trigger (*16) D to 40°C, 510 s5% RH (non condensed) 100 to 240° V AC, 50 to 60Hz 110VA Quick guide, CD-ROM, AC power cable Main module: Approx. 30 x 136 x H5 mm (Excluding Projection), Alarm output terminal: Approx. 30 x 136 x H6 mm (Excluding projection) Main module: (Approx. 294, Alarm output terminal: Approx. 305 g e as the Display module or S5D module. In ass of the DC Strin module (G7-DCB) up to 8 modules.				
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ynchronizati yperating env ower source tower source trandard acce trandard acce trandard acce the moo 1 Excludin In case i the moo 1 Excludin In Excludin In Excludin In Excludin In Excludin Method Walt Tra When the Sample When the When the When the Sample 10 The USS Available 10 The USS Available 10 The USS Available 10 The USS Available 10 The USS Available 10 The USS Available 10 The USS 10 The SUS 10 The S	ampling function (*18) cale function an between units fromment informent inf	Inc Long term recording, the transient part is recorded with high speed sampling after the trigger occurs. Carrent (Low-speed) Recording media - Built-In flash memory or SD card Sampling interval : 1, 2, 5, 10, 20, 100, 125, 200, 250, 500ms, 1, 2, 5, 10, 20, 30s, 1, 2, 5, 10, 20, 30mr, 1h Trigger timer feature: Starting time, Stopping time, Repeat recording Recording media - Built-In RAM or SSD (optional) Sampling interval : 1, 2, 5, 10, 20, 500, 102, 200, 200, 500 us Messured value can be converted to the engineering unit rempressure: Converts by two reference points (gain, difset) Temperature: Converts by two reference points (gain, difset) Temperature: Converts by two reference points (gain) 2016 doi:10, 2016				
ynchronizati perating env ower source tower source trandard acce trandard acce the moo 1 Excludin In case i the moo 2 The Inpu 3 It is ava 3 It is ava 4 The alan 0 Hist ava 5 It is ava 4 Method 10 Hist ava 10	ampling function (*18) cale function an between units fromment module (AL) fromment module (AL) and the second second function modul of the Logic/Paise module and the second second of the Logic/Paise module and the second second af the Logic/Paise module mis detected second mis detected second mis detected second and the cogic/ of detected second mis detected second module (L7-SSD) for recording data is a speed is limited u g speed is li	Inclusion term recording, the transient part is recorded with high speed sampling after the trigger occurs. Carrent (Low-speed) Recording media - Built-In flash memory or SD card Sampling interval : 1, 2, 5, 10, 20, 100, 125, 200, 250, 500ms, 1, 2, 5, 10, 20, 30m, 1, b, Trigger timer feature: Starting time, Stopping time, Repeat recording Event (High-speed) Recording media - Built-In RAM or SSD (optional) Sampling interval : 1, 2, 5, 10, 20, 50, 100, 200, 500 us Measured value can be converted to the engineering unit Analog voltager. Converts by fuor reference points (gain, dfset) Temperature: Converts by two reference points (gain) Bast and Trigger (Ho) D to APCC, S to B5% RH (non condensed) D to APCC, S to B5% RH (non condensed) D to APCC, S to D APA Main module: Approx. MP3 x 141 x 160 mm (Excluding Projection). Alarm output terminal: Approx. 30 x 136 x 145 m (Excluding projection). Main module: C-BROM, AC power cable				

Model name Supported OS	fications	GL-Connection				
		Windows 10 / 8 1	/ 8/ 7 (32/64-bit edition)			
Functions		Control GL7000, Real-time data capture, Replay data, Data format conversion				
Controlled unit		Up to 10 units wit	th GL7000, GL2000, GL980, GL900, GL840, GL820, GL240, GL220			
		GL7000 only: ma	x. 1120 channels			
		Mixing with GL se	eries: max. 2000 channels			
GL7000 Setting	gs control	Input settings, Memory settings, Trigger and Alarm settings, Other settings				
Captured data	(*19)	* Built-in RAM (Binary format), Built-in Flash memory (Binary, CSV format),				
		SD memory car	rd (Binary, CSV format), SSD (Binary, CSV format)			
		The sampling sp	eed is limited by the number of channels used when data is saved in the CSV forma			
		(1 ms per channel. When 10 channels are set, sampling is limited to 10 ms.)				
		* When captured data is saved to the built-in RAM or SSD, data cannot be saved on the PC in real time. Analog waveform, Logic waveform, Pulse waveform, Digital values				
Displayed infor	rmation	Analog waveform, Logic waveform, Pulse waveform, Digital values				
Display mode		Y-T waveform with digital values, XY graph in real time/replay saved data (ver. 1.20 or later), FFT measurement (ver. 1.20 or later), Cursor information, Capture condition, Alarm information				
		FFI measuremen	nt (ver. 1.20 or later), Cursor information, Capture condition, Alarm information			
		Measuring condit	tion setting list (*20)			
		Content: channel n	number, line color, annotation, input type, measuring range, filter, unit, span, scalir			
File operation		Function: Output	in CSV format, Link to detailed setting data to the CSV data (specific period, all data in one file, multiple files),			
rite operation						
Varning Euncti	ion	Credles a new ne	e with compression or by consolidating multiple files.			
Warning Function		Senu e-mail to th	e specified address when the alarms occur faximum, Minimum, Peak or Average			
Statistical calculation		Capturing data: M	iaximum, Minimum, Peak or Average Asvinum, Minimum, Peak Average or PMC in between surrous			
Concel function	-	Replaying data. N	Aaximum, Minimum, Peak, Average or RMS in between cursors			
Search function	nization (*20)	Sedicit Specified	signal level point, alarm point, and time			
Cursor synchro	unzation (~20)	From the begins	rsor position on multiple screens displaying different data file ing: Synchronize the cursor position from the beginning of each screen			
		Position from	esent: Synchronize the cursor position from the beginning of each screen estimates and the scree			
Delesse of remot	e lock of GL7000 (*20)	It allows to make cett	ing operation using control ganglion GL7000 even when GL7000 is under the control of coffwar			
Operation lock	e lock of 627000 (*20)	Operation screen	ing operation using control panel on GL7000 even when GL7000 is under the control of softwar can be locked (It is unlocked with a password.)			
FFT analysis	Analyzing frequency range	0.08 0.2 0.4 0.8	, 1.6, 2, 3.2, 4, 8, 20, 40, 80, 200, 400, 800 Hz, 2, 4, 8, 20, 40, 80, 200, 400 kH			
function	Number of points	500, 1000, 2000,	4000 10000			
(Firmware ver.	Window function	Rectangular, Han	ning, Hamming, Blackman, Flat-top, Exponential			
1.20 or later)	Averaging	Summation avera	age, Exponential average, Peak hold			
	Channels	4 channels				
	Functions	Y-T. Linear. Powe	er, PSD, Cross, Transfer function, Coherence, COP			
	Display mode	Single display, Du	ual display, Nyquist			
Data recording dest	tination selection (*20)	Selecting to reco	rd data to GLZ000 only or PC together with GLZ000			
Creating outpu	t data function	Saved data file (G	rd data to GL7000 only or PC together with GL7000 GBD/CSV format) in the PC, Saved data file (GBD format) in the GL7000,			
(Version 1.40 a	or later)	Generated simple	e waveform (DC voltage and sine, triangle, ramp, pulse waveform)			
(* This function is a	vailable when the analog voltage output module (GL7-DCO) is attached to the GL70			
		The signal is out	put from the GL7-DCO module.			
Display module	e GL7-DISP (option)	specification				
Model number		GL7-DISP				
Display device		5.7-inch TFT color LCD monitor (VGA: 640 x 480 dots)				
Operation		Touch panel and Cursor keys (*21)				
Displayed lang	uage	English, French, German, Chinese, Korean, Japanese				
Screen saver		Turns off back-light by 10, 30 sec., 1, 2, 5, 10, 30, 60 min.				
Displayed infor	rmation	Waveform in Y-T with digital values, Waveform only, Digital value, Waveform in XY				
Connection cal		LAN cable (CAT5 class, Straight connection, Up to 10 m) (*22)				
Standard acces	ssories	Bracket for slanted mount, Connection cable (40 cm), Ground cable, Screws Approx. 187 x 34.5 x 119 mm (Excluding projection)				
External dimen	nsions (W x D x H)	Approx. 187 x 34.5 x 119 mm (Excluding projection)				
Weight		Approx. 530 g				
	L7-SSD (option) spe	cification				
Model number		GL7-SSD				
Storage device		Solid state disk (S	SSD)			
Capacity (*23) Sampling		Approx. 128GB (The file size of the recorded data is limited up to 4GB.)				
sampung	Attached to	Max. 1 M Sample/s (1 µs)				
speed	1 or 2 modules	May 500 h 5				
(*24)(*25)	Attached to	Max. 500 k Samp	nc/ 2 (2 H2)			
3 or 4 modules		New 200 Licensity (Cost)				
	Attached to		la (a (E v.a)			
		Max. 200 k Samp	le/s (5 μs)			
Evtornal dimor	5 to 10 modules					
		Approx. 49 x 136	ıle/s (5 μs) x 180 mm (Excluding projection)			
Weight	5 to 10 modules nsions (W x D x H)					
Weight Options and ac	5 to 10 modules	Approx. 49 x 136 Approx. 770 g	x 180 mm (Excluding projection)			
Weight Options and ac Item	5 to 10 modules nsions (W x D x H)	Approx. 49 x 136 Approx. 770 g Model number	x 180 mm (Excluding projection)			
Weight Options and ac Item	5 to 10 modules nsions (W x D x H)	Approx. 49 x 136 Approx. 770 g Model number B-559	x 180 mm (Excluding projection) Remarks I m long, Synchronizing between GL7000			
Weight Options and ac Item Sync. Cable Carrying tool	5 to 10 modules nsions (W x D x H)	Approx. 49 x 136 Approx. 770 g Model number B-559 B-585	x 180 mm (Excluding projection) Remarks 1 m long, Synchronizing between GL7000 Can carry GL7000 with up to 3 modules attached.			
Weight Options and ac Item Sync. Cable Carrying tool	5 to 10 modules nsions (W x D x H)	Approx. 49 x 136 Approx. 770 g Model number B-559	x 180 mm (Excluding projection) Remarks In long, synchronizing between GL7000 Can carry GL7000 with up to 3 modules statched. Can store GL7000 with up to 3 modules.			
Weight Options and ac Item Sync. Cable Carrying tool Storage case Probe set for L	5 to 10 modules isions (W x D x H) ccessories	Approx. 49 x 136 Approx. 770 g Model number B-559 B-585 B-586	x 180 mm (Excluding projection) Remarks I m long, Synchronizing between GL7000 Can carry GL7000 with up to 3 modules attached. Can store GL7000 with up to 3 modules. Not for transferring. The caster can work only on smooth surface. For Long Project A bandles Cable V Abandes Cable with Allabarc (ria and If di			
Weight Options and ac Item Sync. Cable Carrying tool Storage case Probe set for L	5 to 10 modules isions (W x D x H) ccessories	Approx. 49 x 136 Approx. 770 g Model number B-559 B-585 B-586 RIC-10A	x 180 mm (Excluding projection) Remarks I m long, Synchronizing between GL7000 Can carry GL7000 with up to 3 modules attached. Can store GL7000 with up to 3 modules. Not for transferring. The caster can work only on smooth surface. For Long Project A bandles Cable with Alloparc fina and if cit			
Weight Options and ac Item Sync. Cable Carrying tool Storage case Probe set for L	5 to 10 modules isions (W x D x H) ccessories	Approx. 49 x 136 Approx. 770 g Model number B-559 B-585 B-586 RIC-10A	x 180 mm (Excluding projection) Remarks I m long, Synchronizing between GL7000 Can carry GL7000 with up to 3 modules attached. Can store GL7000 with up to 3 modules. Not for transferring. The caster can work only on smooth surface. For Long Project A bandles Cable with Alloparc fina and if cit			
Weight Options and ac Item Sync. Cable Carrying tool Storage case Probe set for L Input cable, Sa Input cable, BN	s to 10 modules isions (W x D x H) ccessories logic input fe probe - BNC C - BNC	Approx. 49 x 136 Approx. 770 g Model number B-559 B-586 RIC-10A RIC-141A RIC-142 RIC-143	x 180 mm (Excluding projection) Remarks Im long, Synchronizing between GL7000 Can store GL7000 with up to 3 modules attached. Can store GL7000 with up to 3 modules. Profile for transferring. The Caster PL at works with Alligator clip and IC di Insulted, 1.5 m long, 300 VDC, CAT II Insulated, 1.5 m long, 400 VDC, CAT II			
Weight Options and ac Sync. Cable Carrying tool Storage case Probe set for L Input cable, Sa Input cable, Ba Input cable, Ba	s to 10 modules isions (W x D x H) ccessories 	Approx. 49 x 136 Approx. 770 g Model number B-559 B-586 RIC-10A RIC-141A RIC-142 RIC-143	x 180 mm (Excluding projection) Remarks Im long, Synchronizing between GL7000 Can store GL7000 with up to 3 modules attached. Can store GL7000 with up to 3 modules. Profile for transferring. The Caster PL at works with Alligator clip and IC di Insulted, 1.5 m long, 300 VDC, CAT II Insulated, 1.5 m long, 400 VDC, CAT II			
Weight Options and ac Sync. Cable Carrying tool Storage case Probe set for L Input cable, Sa Input cable, Ba Input cable, Ba	s to 10 modules isions (W x D x H) ccessories 	Approx. 49 x 136 Approx. 770 g Model number B-559 B-586 RIC-10A RIC-141A RIC-142 RIC-143	x 180 mm (Excluding projection) Remarks Im long, Synchronizing between GL7000 Can store GL7000 with up to 3 mobiles and the standard stand			
Weight Options and ac term Sync. Cable Carrying tool Storage case Probe set for L Input cable, Ba Input cable, Ba Input cable, Ba Clip, Alligator (: Lip, Alligator (:	[5 to 10 modules usions (W x D x H) ccessories ccessori ccessories ccessories ccessories ccessories ccessories ccessories ccessori ccesori ccessori ccesori ccesori ccessori ccessori cces ccessori	Approx. 49 x 136 Approx. 770 g Model number B-559 B-585 B-586 RIC-10A RIC-141A RIC-141A RIC-142 RIC-143 RIC-147 RIC-144A	x 180 mm (Excluding projection) Remarks I m long, Synchronizing between GL7000 Can starry GL7000 with up to 3 modules attached. Can store GL7000 with up to 3 modules. Not for transferring. The caster can work only on smooth surface. For LogiCPUBE module (GL7-UP) 4 channels, Cable with Alligator Clip and IC cli Insulated, 1.5 m long, 300 V DC, CAT II Insulated, 1.6 m long, 1000 V DC, II Insulated, 1.6 m long, 1000 V DC, II Insulated, 1.6 m long, 1000 V DC, II Insulated, 1.6 m long, 1			
Weight Options and ac term Sync. Cable Carrying tool Storage case Probe set for L Input cable, Ba Input cable, Ba Input cable, Ba Clip, Alligator (: Lip, Alligator (:	[5 to 10 modules usions (W x D x H) ccessories ccessori ccessories ccessories ccessories ccessories ccessories ccessories ccessori ccesori ccessori ccesori ccesori ccessori ccessori cces ccessori	Approx. 49 x 136 Approx. 770 g Model number B-559 B-585 B-586 RIC-10A RIC-10A RIC-10A RIC-141A RIC-143 RIC-143 RIC-144 RIC-145 RIC-145	x 180 mm (Excluding projection) Remarks I m long, Synchronizing between GL7000 Can starry GL7000 with up to 3 modules attached. Can store GL7000 with up to 3 modules. Not for transferring. The caster can work only on smooth surface. For LogiCPUBE module (GL7-UP) 4 channels, Cable with Alligator Clip and IC cli Insulated, 1.5 m long, 300 V DC, CAT II Insulated, 1.6 m long, 1000 V DC, II Insulated, 1.6 m long, 1000 V DC, II Insulated, 1.6 m long, 1000 V DC, II Insulated, 1.6 m long, 1			
Weight Options and ac term Sync. Cable Carrying tool Storage case Probe set for L Input cable, Ba Input cable, Ba Input cable, Ba Clip, Alligator (: Lip, Alligator (:	[5 to 10 modules usions (W x D x H) ccessories ccessori ccessories ccessori ccesori ccessori ccesori ccesori ccessori ccessori ccesori ccesso	Approx. 49 x 136 Approx. 770 g Model number B-559 B-586 B-586 RIC-10A RIC-142 RIC-142 RIC-142 RIC-143 RIC-143 RIC-144A RIC-145 RIC-146 B-513	x 180 mm (Excluding projection) Remarks I m long, Synchronizing between GL7000 Can starry GL7000 with up to 3 modules attached. Can store GL7000 with up to 3 modules. Not for transferring. The caster can work only on smooth surface. For LogiCPUBE module (GL7-UP) 4 channels, Cable with Alligator Clip and IC cli Insulated, 1.5 m long, 300 V DC, CAT II Insulated, 1.6 m long, 1000 V DC, II Insulated, 1.6 m long, 1000 V DC, II Insulated, 1.6 m long, 1000 V DC, II Insulated, 1.6 m long, 1			
Weight Options and ac Utem Sync. Cable Carrying tool Storage case Probe set for L Input cable, Sa Input cable, Sa Input cable, Ba Clip, Alligator (Clip, Alligator (Clip, Grabber ()	[5 to 10 modules isions (W x D x H) cccessories cccessories cccessories cccessories cccessories fe probe - BNC fe probe - BNC fe probe - BNC mana - BNC mala - BNC ma	Approx. 49 x 136 Approx. 770 g Model number B-559 B-585 B-586 RIC-10A RIC-10A RIC-10A RIC-141A RIC-143 RIC-143 RIC-144 RIC-145 RIC-145	x 180 mm (Excluding projection) Remarks Im Tong, Synchronizing between GL7000 Im Tong, Synchronizing between GL7000 Can carry GC7000 with up to 3 modules attached. Can store GC7000 with up to 3 modules attached. For Logic-Pues model (GL7-LP), e damels, Cale with Alligator clip and IC di Insulated, 15 m Iong, 300 V DC, CAT II Insulated, 15 m Iong, 400 V DC, CAT II Insulated, 15 m Iong, 400 V DC, CAT II Insulated, 15 m Iong, 400 V DC, CAT II Insulated, 15 m Iong, 400 V DC, CAT II Insulated, 15 m Iong, 400 V DC, CAT II Insulated, 15 m Iong, 400 V DC, CAT II Insulated, 15 m Iong, 400 V DC, CAT II Insulated, 15 m Iong, 400 V DC, CAT II Insulated, 15 m Iong, 400 V DC, CAT II Insulated, 15 m Iong, 400 V DC, CAT II Insulated, 15 m Iong, 400 V DC, CAT II Insulated, 15 m Iong, 400 V DC, CAT II Insulated, 15 m Iong, 400 V DC, 400 V DC, CAT II Insulated, 15 m Iong, 400 V DC, 400 V DC, 400 V II Insulated, 15 m Iong, 400 V DC, 400 V DC, 400 V II Insulated, 15 m Iong, 400 V DC, 400 V DC, 400 V II Insulated, 15 m Iong, 400 V DC, 400 V DC, 400 V II Insulated, 15 m Iong, 400 V DC, 400 V DC, 400 V II Insulated, 15 m Iong, 400 V DC, 400 V DC, 400 V II Insulated, 15 m Iong, 400 V DC, 400 V DC, 400 V II Insulated, 15 m Iong, 400 V DC, 400 V II Insulated, 15 m Iong, 400 V DC, 400 V II Insulated, 15 m Iong, 400 V DC, 400 V II Insulated, 15 m Iong, 400 V DC, 400 V II Insulated, 15 m Iong, 400 V DC, 400 V II Insulated, 15 m Iong, 400 V DC, 400 V II Insulated, 15 m Iong, 400 V DC, 400 V II Insulated, 15 m Iong, 400 V DC, 400 V II Insulated, 40 V II Insulated, 40 V II Insulated, 40 V II Insulated, 40 V II II Insulated, 40 V II			
Weight Options and ac tern Sync. Cable Carrying tool Storage case Probe set for L Input cable, Sa Input cable, Ba Input cable, Ba Clip, Alligator (: Clip, Grabber (: Input/Output C Input/Output C	[s to 10 modules sistons (W x D x H) ccessories ccessori ccessories ccessories ccessories ccessori	Approx. 49 x 136 Approx. 770 g Model number B-559 B-586 B-586 RIC-10A RIC-142 RIC-142 RIC-142 RIC-143 RIC-143 RIC-144A RIC-145 RIC-146 B-513	x 180 mm (Excluding projection) Remarks Im Tang, Synchronizing between GL7000 Im Tang, Synchronizing between GL7000 Can carry GC7000 with up to 3 modules attached. Can store GC7000 with up to 3 modules. Not for transferring, The caster can work only on smooth surface. For LogiCr20e module (GL7-LP): 4 cannels, Cab with Alligator clip and IC dl Insulated, 15 m Iong, 300 V DC, CAT II Insulated, 15 m Iong, 300 V DC, CAT II Insulated, 15 m Iong, 300 V DC, CAT II Insulated, 15 m Iong, 300 V DC, CAT II Insulated, 15 m Iong, 300 V DC, CAT II Insulated, 15 m Iong, 300 V DC, CAT II, Max, 15 A For RIC-1437/RC1-VA7, Aperture 20 mm, 1000 V DC, CAT II, Max, 15 A For RIC-1437/RC1-VA7, Aperture 20 mm, 1000 V DC, CAT II, Max, 14 Z m Iong, Bare wire for signal connection - Connector for GL series			
Weight Options and ac Item Sync. Cable Carrying tool Storage case Probe set for L Input cable, Sa Input cable, Ba Input cable, Ba Clip, Alligator (Clip, Alligator (Clip, Alligator (Lip, Staber () Input/Output c Humidity sensi Shunt resistan	[5 to 10 modules issions (W x D x H) ccessories ccessories ccessories ccessories fe probe - BNC (C - BNC mana - BNC mana - BNC manal size) (*26) middle size) (*26) "26) able for GL or (*27) ce	Approx. 49 x 136 Approx. 770 g B-559 B-585 B-586 RIC-10A RIC-141A RIC-143 RIC-143 RIC-143 RIC-143 RIC-143 RIC-144 RIC-145 RIC-146 B-513 B-530	x 180 mm (Excluding projection) Remarks Im Tong, Synchronizing between GL7000 Im Tong, Synchronizing between GL7000 Can carry GC7000 with up to 3 modules attached. Can store GC7000 with up to 3 modules. Not for transferring, The caster can work only on smooth surface. For LogiCr2Nea model (GL7-LP): 4 cannels, Cab with Alligator clip and IC dl Insulated, 1.3 m Iong, 300 V DC, CAT II Insulated, 1.4 m Iong, 300 V DC, CAT II Insulated, 1.4 m Iong, 300 V DC, CAT II Insulated, 1.5 m Iong, 400 V DC, CAT II Insulated, 1.5 m Iong, 400 V DC, CAT II Insulated, 1.5 m Iong, 400 V DC, CAT II Insulated, 1.5 m Iong, 400 V DC, CAT II, Max, 15 A For RIC-1437/RC1-VA7, Aperture 20 mm, 1000 V DC, CAT II, Max, 1 A Z m Iong, Bare wire for signal connection - Connector for GL series 3 m cables for signal argomer Z50 0 mms (Converts signal from "4-20m4" to "1-5V".)			
Weight Options and ac Etem Sync. Cable Carrying tool Storage case Probe set for L Input cable, Sa Input cable, Ba Input cable, Ba Clip, Alligator (Clip, Alligator (Clip, Alligator (Lip, Alligator (Humidity sens; Shunt resistan	[s to 10 modules sistons (W x D x H) ccessories ccessori ccessories ccessories ccessories ccessori	Approx. 49 x 136 Approx. 770 g Model number B-585 B-586 B-586 RIC-10A RIC-142 RIC-142 RIC-142 RIC-142 RIC-147 RIC-144 RIC-145 RIC-146 B-513 B-551	x 180 mm (Excluding projection) Remarks Im Tong, Synchronizing between GL7000 Im Tong, Synchronizing between GL7000 Can carry GC7000 with up to 3 modules attached. Can store GC7000 with up to 3 modules. Not for transferring, The caster can work only on smooth surface. For LogiCr2Nea model (GL7-LP): 4 cannels, Cab with Alligator clip and IC dl Insulated, 1.3 m Iong, 300 V DC, CAT II Insulated, 1.4 m Iong, 300 V DC, CAT II Insulated, 1.4 m Iong, 300 V DC, CAT II Insulated, 1.5 m Iong, 400 V DC, CAT II Insulated, 1.5 m Iong, 400 V DC, CAT II Insulated, 1.5 m Iong, 400 V DC, CAT II Insulated, 1.5 m Iong, 400 V DC, CAT II, Max, 15 A For RIC-1437/RC1-VA7, Aperture 20 mm, 1000 V DC, CAT II, Max, 1 A Z m Iong, Bare wire for signal connection - Connector for GL series 3 m cables for signal argomer Z50 0 mms (Converts signal from "4-20m4" to "1-5V".)			
Weight Options and ac Etem Sync. Cable Carrying tool Storage case Probe set for L Input cable, Sa Input cable, Ba Input cable, Ba Clip, Alligator (Clip, Alligator (Clip, Alligator (Lip, Alligator (Humidity sens; Shunt resistan	[5 to 10 modules issions (W x D x H) ccessories ccessories ccessories ccessories fe probe - BNC (C - BNC mana - BNC mana - BNC manal size) (*26) middle size) (*26) "26) able for GL or (*27) ce	Approx. 49 x 136 Approx. 770 g Model number B-585 B-586 B-586 RIC-10A RIC-142 RIC-142 RIC-142 RIC-142 RIC-147 RIC-144 RIC-145 RIC-146 B-513 B-551	x 180 mm (Excluding projection) Remarks Im long, Synchronizing between GL7000 Im long, Synchronizing between GL7000 Can carry GL7000 with up to 3 modules attached. Can store GL7000 with up to 3 modules attached. For LogC-POLe and Carry Log Annels, Cabe with Alligator clip and Ic Cl Insulated, 15 m long, 300 V DC, CAT II, Insulated, 15 m long, 100 V DC, CAT II, Insulated, 15 m long, 100 V DC, CAT II, Insulated, 15 m long, 100 V DC, CAT II, Insulated, 15 m long, 100 V DC, CAT II, Insulated, 15 m long, 100 V DC, CAT II, Insulated, 15 m long, 100 V DC, CAT II, Insulated, 15 m long, 100 V DC, CAT II, Insulated, 15 m long, 100 V DC, CAT II, Insulated, 15 m long, 100 V DC, CAT II, Insulated, 15 m long, 100 V DC, CAT II, Insulated, 15 m long, 100 V DC, CAT II, Insulated, 15 m long, 100 V DC, CAT II, Insulated, 15 m long, 100 V DC, Insulated, 16 m long, 100 V			
Weight Options and ac tem Etem Sync. Cable Carrying tool Storage case Probe set for L Input cable, Ba Input cable, Ba Input cable, Ba Input cable, Ba Input cable, Ba Input cable, Ba Sinput cable, Ba Short Castana Short Pastana Short Pastana Input connector	[s to 10 modules sisons (W x D x H) ccessories (c = NC + NC	Approx. 49 x 136 Approx. 770 g Model number B-559 B-585 B-586 B-586 RIC-10A RIC-141A RIC-142 RIC-142 RIC-143 RIC-144 RIC-145 RIC-145 RIC-145 RIC-145 B-513 B-551 B-551 B-550	x 180 mm (Excluding projection) Remarks Im long, Synchronizing between GL7000 Im long, Synchronizing between GL7000 Can carry GL7000 with up to 3 modules attached. Can store GL7000 with up to 3 modules. Not for transferring. The caster can work only on smooth surface. For LogC-PUB conduct (GL-LP) - 4 charnels, Cabe with Allgator clip and LC di Insulated, 15 m long, 300 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, Insulated, 15			
Weight Item Sprinches and ac term Sync. Cable Carrying tool Storage case Probe set for L Input cable, Ba Input cable, Ba Input cable, Ba Clip, Alligator (Clip, Alligator (Clip, Alligator (Input cable, Ba Shunt resistan input connector Shunt resistan Input connector Terminal holdit	[5 to 10 modules sions (W x D x H) ccessories cogic input fe probe - BNC C - BNC mana - BNC mana - BNC small size) (*26) middle size) (*26) middle size) (*27) r26) middle size) (*27) ce ce rce rce rce	Approx. 49 x 136 Approx. 770 g Model number B-559 B-585 B-586 RIC-10A RIC-141A RIC-141A RIC-143 RIC-143 RIC-143 RIC-144A RIC-144A RIC-144A RIC-145 RIC-146 B-513 B-550 B-550A B-550AP	x 180 mm (Excluding projection) Remarks Im long, Synchronizing between GL7000 Im long, Synchronizing between GL7000 Can carry GL7000 with up to 3 modules attached. Can store GL7000 with up to 3 modules Not for transferring. The caster can work only on smooth surface. For LogC-PUB conduct (GL-Z)-Ly-C charnels, Cabe with Allgator clip and LC di Insulated, 15 m long, 300 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, Insulated, 16 m long,			
Weight Options and ac term Sync, Cable Carrying tool Storage case Probe set for L Imput cable, Ba Imput cable, Ba Shungut cable, Ba Shungut cable, Ba Shungut cable, Ba Imput cable,	[5 to 10 modules sisons (W x D x H) ccessories ccesories ccessories ccessories ccessories ccessories ccess	Approx. 49 x 136 Approx. 770 g Model number B-559 B-585 B-586 B-586 RIC-10A RIC-141A RIC-142 RIC-142 RIC-143 RIC-144 RIC-145 RIC-145 RIC-145 RIC-145 B-513 B-551 B-551 B-550	x 180 mm (Excluding projection) Remarks Im long, Synchronizing between GL7000 Im long, Synchronizing between GL7000 Can carry GL7000 with up to 3 modules attached. Can store GL7000 with up to 3 modules Not for transferring. The caster can work only on smooth surface. For LogC-PUB conduct (GL-Z)-Ly-C charnels, Cabe with Allgator clip and LC di Insulated, 15 m long, 300 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, Insulated, 16 m long,			
Weight Options and ac term Sync, Cable Carrying tool Storage case Probe set for L Imput cable, Ba Imput cable, Ba Shungut cable, Ba Shungut cable, Ba Shungut cable, Ba Imput cable,	[5 to 10 modules sisons (W x D x H) ccessories ccesories ccessories ccessories ccessories ccessories ccess	Approx. 49 x 136 Approx. 770 g Model number B-559 B-585 B-586 RIC-10A RIC-142 RIC-142 RIC-142 RIC-142 RIC-142 RIC-142 RIC-145 RIC-145 RIC-145 RIC-145 RIC-145 RIC-145 B-513 B-551 B-551 B-551 B-550AP B-550AP	x 180 mm (Excluding projection) Remarks I m long, Synchronizing between GL7000 Can arry GL7000 with up to 3 modules attached. Can store GL7000 with up to 3 modules. Not for transferring. The caster can work only on smooth surface. For LogiC/Nbe module (GL7-UP, 4 channels, Cable with Alligator clip and Ic Cl Insulated, 1.5 m long, 300 V DC, CAT II Insulated, 1.5 m long, 100 V DC, 100			
Weight Options and ac Item Sync. Cable Carrying tool Storage case Probe set for L Input cable, Sa Input cable, Ba Input cable, Ba Clip, Alligator (Clip, Alligator (Clip, Alligator (Lip, Staber () Input/Output c Humidity sensi Shunt resistan	[5 to 10 modules issions (W x D x H) ccessories ogic input fe probe - BNC (c - BNC (c - BNC (c - BNC mana - BNC mana - BNC mana - BNC mana - BNC mana - BNC (*26) mana - BNC (*26) (*27) (*27	Approx. 49 x 136 Approx. 770 g Model number B-559 B-585 B-586 RIC-10A RIC-142 RIC-142 RIC-142 RIC-142 RIC-142 RIC-142 RIC-145 RIC-145 RIC-145 RIC-145 RIC-145 RIC-145 B-513 B-551 B-551 B-551 B-550AP B-550AP	x 180 mm (Excluding projection) Remarks Im long, Synchronizing between GL7000 Im long, Synchronizing between GL7000 Can carry GL7000 with up to 3 modules attached. Can store GL7000 with up to 3 modules Not for transferring. The caster can work only on smooth surface. For LogC-PUB conduct (GL-LP) - 4 charnels, Cabe with Allgator clip and IC cli Insulated, 15 m long, 300 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, CAT II, Insulated, 15 m long, 1000 V DC, Insulated, 16 m long,			

(plug) for G

[BNC [plug] for output - SMA [plug] for GL7-DC0 module
 [BNC [plug] for output - SMA [plug] for GL7-DC0 module
 [string of the smaller than above depending on time of production. The file for recording data is
 imited up to 468 on firmware version 2.0 or later, 268 on firmware version 1.6 or before.
 '4) The sampling speed in the GL7000 is limited to the faster sampling geed of attached input module. When the selected
 sampling speed in the GL7000 is limited to the faster sampling is done in fasters sampling on the module.
 The same value is stored to the memory device in the selected sampling speed of attached input module. When the selected
 sampling speed in the GL7000 is selected to the 1 MS/s (1 µs) or 500 KS/s (2 µs),
 "20) Red and black (per 1 unit). Connectable with BIC-143, BIC-147,
 "27) Measurable temperature range: -25 - 80°C

The data loss caused by the equipment / PC failure is not guaranteed. Please make sure to back up your data. Brand names and product names listed in this brochure are the trademarks or registred trademarks of their respective owners. Items mentioned are subject to change without notice. For more information about product, please check the we bill or contact your local representative.

For using equipment in correctly and safely

Before using it, please read the user manual and then please use it properly in accordance with the description.
 To avoid an occurrence of matfunction or an electric shock by leakage, please ensure ground connection and use it in specified power source.



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The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification. Althen – Your expert partner in Sensors & Controls | althensensors.com

Althen stands for pioneering measurement and custom sensor solutions. In addition we offer services such as calibration, design & engineering, training and renting of measurement equipment.

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