

It's my LOGGER

10 channel handy Logger midi LOGGER GL220

Voltage

Temp.

Humidity

Pulse

Logic

New



10CH

Faster Sampling
10ms

Wide LCD
4.3inch

Built-in memory
2GB

Ring memory

10 isolated channels, each with multifunction input

Contains an isolated input system which ensures that signals are not corrupted by inputs to other channels. Suitable for voltage, temperature, humidity, pulse, and logic signals.

Voltage 20mV to 50V wide range

Temp. Supported 9 type of thermocouples: R, S, B, K, E, T, J, N, W

Humidity Measured the humidity easily using the optional sensor

Pulses Supported 4 channels of either pulse or logic input

using optional cable

Built-in 2GB Flash memory for reliable long term measurement

The 2GB Flash Memory enables secure long term data measurement without using an external storage device.

Supports USB memory, Hot-swappable

Also supports popular USB memory sticks for external storage.

The GL220 saves measured data directly to USB memory sticks.

USB memory sticks can be replaced during measurement without data loss.

10ms

Maximum 10ms Sampling

Provides faster sampling rates for voltage measurements.

Can achieve 10ms sampling interval when limiting the number of channels in use.

4.3-inch TFT colour LCD

Utilises a bright clear 4.3-inch wide TFT color LCD monitor (WQVGA: 480 x 272 dots). Makes it easy to read data in waveform or digital form and to check your measurement parameter settings.

Ring memory function

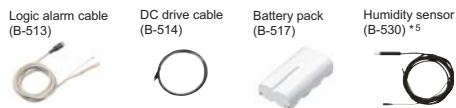
The most recent data is saved when internal memory or external memory is configured in ring memory mode.

GL220 main unit specifications		
Item	Description	
Number of analog input channels	10 ch	
External input/output	Input *1	Trigger or Sampling input 1 ch, Logic or Pulse input 4 ch
	Output *1	Alarm output 4 ch
Sampling interval	10 ms to 1 h (in 10ms to 50ms, voltage only and limited channel), Extnral	
Time scale	1 sec to 24 hour /division	
Trigger function	Action	Start or stop capturing data by the trigger
	Source	Start: Off, Input signal, Alarm, External *1, Clock, Week or Time Stop: Off, Input signal, Alarm, External *1, Clock, Week or Time
	Combination	OR or AND condition at the level of signal or edge of signal
	Condition	Analog: Rising, Falling, Window-in, Window-out Pulse: Rising, Falling, Window-in, Window-out Logic: Rising or Falling
Alarm function	Detecting method	Level or edge of signal
	Condition	Analog: Rising, Falling, Window-in, Window-out Pulse: Rising, Falling, Window-in, Window-out Logic: Rising, Falling
	Alarm output *1	4 channels, Output type: Open collector (pull-up resistor 10 kΩ)
	Pulse input function *1	Accumulating count mode Accumulating the number of pulses from the start of measurement Range: 50, 500, 5 k, 50 k, 500 k, 5 M, 50 M, 500 M counts/F.S.
Pulse input function *1	Instant count mode	Counting the number of pulses per sampling interval Range: 50, 500, 5 k, 50 k, 500 k, 5 M, 50 M, 500 M counts/F.S.
	Rotation count (RPM) mode	Counting the number of pulses per second and then it is converted to RPM Range: 50 rpm, 500 rpm, 5 krpm, 50 krpm, 500 krpm, 5 Mrpm, 50 Mrpm, 500 Mrpm /F.S.
	Max. input pulse rate	50 k pulses/sec or 50k counts per sampling interval, 16 bits counter is used
Calculation function	Between channels	Addition, Subtraction, Multiplication and Division for analog input
	Statistical	Select two calculations from Average, Peak, Max., Min., RMS
Search function	Search for analog signal levels, values of logic or pulse or alarm point in captured data	
Interface to PC	USB (Full speed)	
Storage device	Built-in Flash memory (2 giga-bytes), USB memory device *2	
Data saving function	Captured data	Direct saving of data into built-in Flash memory or USB memory device
	Others	Setting conditions, Screen copy
Ring capturing mode	Function: ON/OFF, Number of capturing point: 1,000 to 2,000,000 (Size of the capture data will be limited to 1/3 of available memory)	
USB memory device emulation	USB Memory emulation mode (Transfer or delete the file in built-in memory)	
Engineering scale function	Set based on the reference point of the scaled output and input signal for each channel (Voltage measurement: four points are necessary to scale the output. Temperature measurement: two points are necessary to scale the output).	
Display	Size	4.3 inch TFT color LCD (WQVGA: 480 x 272 dots)
	Formats	Waveform + Digital, Waveform only, Calculation + Digital, Expanded digital
Operating environment	0 to 45 °C, 5 to 85 %RH (When operating with battery pack 0 to 40 °C, charging battery 15 to 35 °C)	
Power source	AC adapter (100 to 240 V, 50/60 Hz), DC power (8.5 to 24 V DC, max. 26.4 V) *3, Battery pack *3	
Power consumption	29 VA or lower (when operating with AC adapter, displaying LCD)	
External dimensions (W×D×H)	approx. 194 x 117 x 42 mm	
Weight	approx. 520 g (Excluding AC adapter and battery pack)	

Software specifications		
Item	Description	
Supported OS	Windows XP / Vista / 7 (32 bits and 64 bits edition)	
Functions	Control GL220, Real-time data capture, Replay data, Data format conversion	
GL220 settings control	Input settings, Memory settings, Alarm settings, Trigger settings	
Captured data	Transfers data in real-time (in binary or CSV format), saved data in GL220 or the USB memory	
Displayed information	Analog waveforms, Logic waveforms, Pulse waveforms, Digital values	
Display modes	Y-T waveforms, Digital values, Report, X-Y graph (specified period of data, data replay only)	
Warning functions	Sends E-mail to the specified address when the alarm occurred	
File format conversions	Converts the specified period data or all data to the CSV format (thinning function is available)	
Report functions	Creates a daily or monthly report automatically (can also export directly to Excel)	
Displayed Max. Min.	Displays the maximum, minimum and current value in measurement	

Standard accessories		
Item	Description	Quantity
AC adapter	100 to 240 V AC, 50 / 60 Hz (with specified type of power cord)	1 set
CD-ROM	User's manual (PDF format), Application software	1 piece
Quick Start Guide		1 copy

Options and accessories		
Item	Model number	Remarks
Logic alarm cable	B-513	2 m long (no clip on end of cable)
DC drive cable	B-514	2 m long (no clip on end of cable)
Battery pack	B-517	1 piece (7.4 V 2200 mAh, 17Wh)
Humidity sensor *5	B-530	3 m long (with power plug)

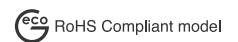


*5: Operating environment: -25 to 80 °C

Analog input specifications				
Item	Description			
Type of input terminal	Screw terminal (M3 screw)			
Input method	Scans by the photo-MOS-relay, all channels isolated, balanced input			
Measurement range	Voltage	20, 50, 100, 200, 500 mV, 1, 2, 5, 10, 20, 50 V, and 1-5 V /F.S.		
	Temperature	Thermocouple: K, J, E, T, R, S, B, N, and W (W/Re5-26)		
	Humidity	0 to 100% (using humidity sensor (B-530 optional), power is supplied to only one sensor)		
Filter	Off, 2, 5, 10, 20, 40 (moving average in selected number)			
Measurement accuracy *4	Voltage	0.1 % of F.S.		
		Temperature	0.1 % of F.S.	
	Thermocouple R/S		Measurement range	Accuracy
		0 °C ≤ TS ≤ 100 °C	± 5.2 °C	
	100 °C < TS ≤ 300 °C	± 3.0 °C		
	R: 300 °C < TS ≤ 1600 °C	± (0.05 % of reading + 2.0 °C)		
	S: 300 °C < TS ≤ 1760 °C	± (0.05 % of reading + 2.0 °C)		
	B	400 °C ≤ TS ≤ 600 °C	± 3.5 °C	
		600 °C < TS ≤ 1820 °C	± (0.05 % of reading + 2.0 °C)	
	K	-200 °C ≤ TS ≤ -100 °C	± (0.05 % of reading + 2.0 °C)	
-100 °C < TS ≤ 1370 °C		± (0.05 % of reading + 1.0 °C)		
E	-200 °C ≤ TS ≤ -100 °C	± (0.05 % of reading + 2.0 °C)		
	-100 °C < TS ≤ 800 °C	± (0.05 % of reading + 1.0 °C)		
T	-200 °C ≤ TS ≤ -100 °C	± (0.1 % of reading + 1.5 °C)		
	-100 °C < TS ≤ 400 °C	± (0.1 % of reading + 0.5 °C)		
J	-200 °C ≤ TS ≤ -100 °C	± 2.7 °C		
	-100 °C < TS ≤ 100 °C	± 1.7 °C		
	100 °C < TS ≤ 1100 °C	± (0.05 % of reading + 1.0 °C)		
N	0 °C ≤ TS ≤ 1300 °C	± (0.1 % of reading + 1.0 °C)		
	0 °C ≤ TS ≤ 2000 °C	± (0.1 % of reading + 1.5 °C)		
W	Reference Junction Compensation (R.J.C.): ±0.5 °C			
	A/D Converter			
		ΣΔ type, 16 bits (effective resolution: 1/40,000 of measuring full range)		
Maximum input voltage	Between + / - terminal	60 V p-p		
	Between channels	60 V p-p		
	Between channel / GND	60 V p-p		
Withstand voltage	Between channels	350 V p-p (1 minute)		
	Between channel(-)/GND	350 V p-p (1 minute)		

- *1: Logic alarm cable (B-513) option is required.
 Input signal of External sampling, Logic, Pulse: Maximum voltage: 24 V, Threshold: approx. 2.5 V, Hysteresis: approx. 0.5 V.
 *2: Size of the USB memory device is unlimited. Maximum file size is limited to 2GB.
 *3: DC drive cable (B-514) or battery pack (B-517) option is required.
 *4: Subject to the following conditions;
 • Room Temperature is 23°C ±5°C.
 • When 30 minute or more have elapsed after power was turned on.
 • Filter is set to 10.
 • Sampling rate is set to 1s with 10 channels.
 • GND terminal is connected to the ground.

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