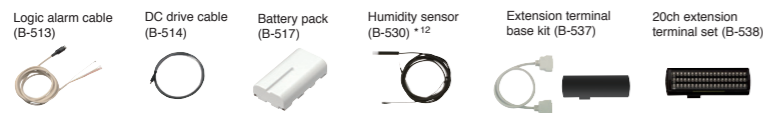


GL820 main unit specifications		
Item	Description	
Number of analog input channels	20 ch, Expandable up to 200 ch by unit of 20 ch	
External input output	Input *8 Trigger or Sampling input 1 ch, Logic or Pulse input 4 ch Output *8 Alarm output 4 ch	
Sampling interval	10 ms to 1 h (in 10ms to 50ms, voltage only and limited channel), External	
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 *8, Clock, Week or Time Stop: Off, Input signal, Alarm, External *8, 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, 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
Pulse input function *9	Alarm output *8	4 channels, Output type: Open collector (pulled-up to 5 V by resistor 10 k )
	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.
	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.
Calculation function	Max. input pulse rate	50 k pulses/sec or 50k counts per sampling interval (16 bits counter is used)
	Between channels	Addition, Subtraction, Multiplication and Division for analog input
Search function	Statistical	Select two calculations from Average, Peak, Max., Min., RMS
		Search for analog signal levels, values of logic or pulse or alarm point in captured data
Interface to PC	Ethernet (10 BASE-T/100 BASE-TX), USB (Full speed)	
Storage device	Built-in Flash memory (2 giga-bytes), USB memory device *9	
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: 1000 to 2000000 (size of the capture data will be limited to 1/3 of available memory when in Ring Mode)	
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	5.7 inch TFT color LCD (VGA: 640 x 480 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) *10, Battery pack *10	
Power consumption	32 VA or lower (when operating with AC adapter, displaying LCD, charging battery pack)	
External dimensions (WxDxH)	approx. 232 x 152 x 50 mm	
Weight	approx. 900 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 GL820, Real-time data capture, Replay data, Data format conversion
GL820 settings control	Input settings, Memory settings, Alarm settings, Trigger settings
Controlled units	Up to 10 units or 500 channels
Captured data	Transfers data in real-time (in binary or CSV format), saved data in GL820 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 reply only)
Warning functions	Sends E-mail to the specified address when the alarms occur
File format conversions	Converts the specified period data or all data to the CSV format (thinning function is available)
Report functions	Creates the daily or monthly report automatically (can also export directly to Excel)

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 *12	B-530	3 m long (with power plug)
Extension terminal base kit	B-537	Terminal base, cable
20 ch extension terminal set	B-538	Terminal base, terminal unit (20 ch), fixing plate



\*12: Operating environment: -25°C to 80°C

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ER131006 Vol.1

# GRAPHTEC

## Isolated input, multi-channel logger midi LOGGER GL820



Voltage | Temp. | Humidity | Pulse | Logic

- Modular system allows expansion up to 200 channels
- All channels are isolated, each with multifunction input
- Huge built-in 2GB Flash memory
- Large easy-to-read 5.7-inch TFT colour LCD
- PC -friendly, supports USB memory stick, has USB and LAN ports



<http://www.graphteccorp.com>

