		Description		
Number of analog input channels		10 ch		
Input "		Trigger or Sampling input 1 ch, Logic or Pulse input 4 ch		
input/output Output 9		Alarm output 4 ch		
Sampling interval		10 ms to 1 h (in 10ms to 50ms, voltage only and limited channel), External		
e scale ger Action		1 sec to 24 hour /division		
		Start or stop capturing data by the trigger		
Source		Start: Off, Input signal, Alarm, External 9, Clock, Week or Time		
		Stop: Off, Input signal, Alarm, External 9, Clock, Week or Time		
		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		
Detector	- mathead	Logic: Rising or Falling Level or edge of signal		
		Analog: Rising, Falling, Window-in, Window-out		
Condition		Pulse: Rising, Falling, Window-in, Window-out		
		Logic: Rising, Falling Logic: Rising, Falling		
Alarm output 7		4 channels, Output type: Open collector (pull-up resistor 10 kO)		
		Accumulating the number of pulses from the start of measurement		
mode	and com	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.		
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		
		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		
		Select two calculations from Average, Peak, Mex., Min., RMS		
		Search for analog signal levels, values of logic or pulse or alarm point in captured date		
Interface to PC		USB (Full spood)		
device		Built-in Flash memory (2 giga-bytes), USB memory device '11		
		Direct saving of data into built in Flash memory or USB memory device Setting conditions, Screen copy		
		Function: ON/OFF, Number of capturing point: 1000 to 2000000		
Ring capturing mode		(size of the capture data will be limited to 1/3 of available memory)		
		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 eac channel (Voltage measurement: four points are necessary to scale the output Temperature measurement: two points are necessary to scale the output).		
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, 5060 Hz), DC power (8.5 to 24 V DC, max. 26.4 V) 71, Bettery pack 11		
Power consumption		29 VA or lower (when operating with AC adapter, displaying LCD)		
External dimensions (WxDxH)		approx. 194 x 117 x 42 mm		
		approx. 520 g (Excluding AC adapter and battery pack)		
specifi				
	Description			
		/ Vista / 7 (32 bits and 64 bits edition)		
	Control GL22	O, Real-time data capture, Replay data, Data format conversion		
ps control		, Memory settings, Alarm settings, Trigger settings		
t .		a in real-time (in binary or CSV format), saved data in GL220 or the USB memory		
		forms, Logic waveforms, Pulse waveforms, Digital values		
8	Y-T waveform	ns, Digital values, Report, X-Y graph (specified period of data, data replay only)		
	Action Source Combine Condition Detection Detection Detection Tondition Detection Dete	Action Searce Searce Combination Condition Con		

Item			Description		
Type of input terminal			Screw terminal (M3 screw)		
Input method			Scans by the photo-MOS-relay, all channels isolated, balanced input		
Measurement Voltage			20, 50, 100, 200, 500 mV, 1, 2, 5, 10, 20, 50 V, and 1-5 V /F.S.		
range	Temperature		Thermocouple: K, J, E, T, R, S, B, N, and W (WRe5-26)		
	Humidity			530 optional), power is supplied to only one senso	
Filter			Off, 2, 5, 10, 20, 40 (moving ave	rage in selected number)	
Measurement			0.1 % of F.S.		
accuracy "o	Tempe- rature	Thermocouple	Measurement range	Accuracy	
		R/S	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)	
		R	400 °C ≤ TS ≤ 600 °C	±3.5 °C	
		В	600 °C < TS < 1820 °C	x (0.05 % of reading + 2.0 °C)	
		к	200 °C ≤ TS ≤ -100 °C	± (0.05 % of reading + 2.0 °C)	
			-100 °C < TS s 1370 °C	± (0.05 % of reading + 1.0 °C)	
		Ε	-200 °C ≤ TS ≤ -100 °C	± (0.05 % of reading + 2.0 °C)	
			-100 °C < TS ≤ 800 °C	± (0.05 % of reading + 1.0 °C)	
		т	-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 ℃	
			-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	x (0.1 % of reading + 1.0 °C)	
		W	0 °C s TS s 2000 °C	± (0.1 % of reading + 1.5 °C)	
			Reference Junction Compensation (R.J.C.): ±0.5 °C		
A/D Converter				tion: 1/40000 of measuring full range)	
	Maximum Between		60 Vpp		
input voltage	Between channels		60 V p p		
	Botwoon channol / GND		60 V p p		
Withstand voltage	Between channels		350 V p-p (1 minute)		
	Between channel(-)/ GND		350 V p-p (1 minute)		

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

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 "13	B-530	3 m long (with power plug)	
Logic slarm cable (8-513)		Battery pack Humidaly sensor (B-530) "a"	



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Website http://www.graphteccorp.com





■ 10 isolated channels, each with multifunction input

Maximum sampling rate of up to 10ms

■ Large easy-to-read 4.3-inch wide TFT color LCD

■ Built-in 2GB Flash memory

Includes a ring memory function



http://www.graphteccorp.com

Handy-type Logger with huge 2GB Flash Memory

10 isolated channels, each with multifunction input

Its compact size contains an isolated input system which ensures that signals are not corrupted by inputs to other channels, thus eliminating wring concerns. The GL2250 multi-type inputs are suitable for voltage, temperature, humidity, pulse, and logic signals, enabling combined measurements of different phenomena like temperature/humidity and voltage.

Tollage	r manged form 20 mr to 00 t	
Temp.	▶ Thermocouple types: K, J, E, T, R, S, B, N, W (WRe5-26)	
Humidity	0 to 100%RH	

| Humidity | Description | Pulsa | Pul

4.3-inch WQVGA 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 certifions.





Useful functions Alarm output function

device setup

Ergonomically designed and easy to operate, just like a mobile device. The input/output terminals and keybord layout are arranged so that it can be operated in hands-on mode even when recording data. Parameters in the AMP settings menu can be easily changed whilst viewing the waveform.







Supports USB memory device Easy connection to PC
Captured data can be saved directly to USB memory sticks when these are chosen for external storage. In addition, the GL220 can be controlled by a PC if cornected by USB cable, allowing transfer of data to a PC in row of the Control of the Co



External sampling function Captured data can be synchronized external timing signals when the external sampling rate function is used.⁷²

Calculation function

Can be used with 3 types of power source
Chose from AC supply. DC supply or the optional battery pack which enables 6 hours "of continuous measurement. The power source is automatically switched to the battery pack when the AC power supply is interupted. If the capacity of the battery pack, goes helded of the captured data file is closed and protected.

*6: DC power drive cable and battery pack are optional extras. Measuring time by using the battery pack varies on the conditions.

NEW

Maximum sampling rate of up to 10ms Provides faster sampling rates for voltage measurements. Can achieve 10ms sampling interval when limiting the number of channels in use.

X: selection is available, N/A: selection is not available.

"2: For humidity measurements, be 0-1V range and scaling function are used to display results directly in Fletative Humidity. Sampling rate limitations are same as those for voltage measurement. 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. Data is retained even when power is turned off because flash memory is used. 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.

The most recent data is saved when internal memory or external memory is configured in ring memory mode. (Captured data size in ring memory mode is limited to 1/3 of available memory.)

Ring memory function





Easy application software



Substantial data replay screens





Simple configuration screens
The number of configuration screens has been reduced to five. Parameters can be set easily while viewing measured waveforms.





Evaluation tests for batteries

Up to 10 units can be controlled from one PC Up to 10 units "can connected to 1 PC. Measurements can be performed simultaneously or independently.





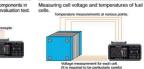
Typical applications for the GL220 midi LOGGER

Recording data from an analyser

Measuring temperature in an environmental chamber Capture signals from an ozone measuring device to record changes in ozone concentration over long periods.







midi LOGGER series Voltage | Temp. | Humidity | Pulse | Logic



Suitable for multi-channel

Standard 20ch analog input, expandable up to 200ch
All isolated channels, each with multifunction input
Large easy-to-read 5.7-inch VGA TFT color LCD
Bullt-in 2GB Flash memory
Supports USB and LAN

Suitable for measuring high-speed phenomena

A or 8 isolated channels, each with multifunction input
High-speed simultaneous sampling up to 10µs, 16-bits resolution
Large easy-to-read 5.7-inch TFT color LCD
Includes X-Y graph display function in real-time.

midi LOGGER GL900 series



^{*1:} Select either Pulse input or Logic input,