

GL200 midi Logger/Chart Recorder

Description

The GL200 is a new compact light-weight data logger/chart recorder accepting 10 thermocouple, humidity and voltage analogue inputs. With its large format colour display, you can easily set up and capture data with the ability to monitor waveforms and digital values during measurements. Its instant replay function makes it easy to review data that has been captured to internal memory or removable USB memory stick storage. Standard PC interface makes GL200 accessible through USB.

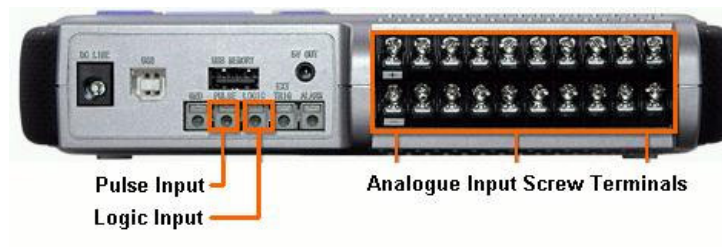
Product



- 10 isolated input channels
- accepts Voltage (20mv to 50V), Thermocouple (K,E,J,T,N,R,S,T,B,W) and Humidity inputs
- 16-bit ADC resolution
- 3.5" colour LCD display (320 x 240 pixels)
- Waveform and text display modes
- Easy-to-use keypad menu system
- Single open-collector alarm output
- Range of trigger functions
- real-time statistical calculation
- Built-in 3.5M memory
- 2 x USB 2.0 interfaces - one for USB Memory stick and one for PC connection
- Built-in battery for 6 hour operation
- scan speed - 0.1s/sec for all 10 channels maximum
- Includes also 1 pulse input, 1 trigger input
- Ultra small (194mm x 122mm x 41mm)
- Supplied with mains PSU
- Includes Windows software for setup, control, data transfer, data conversion to ASCII and Excel formats, and on-screen data review with cursors

Description

The GL200 accepts voltage, temperature, humidity, pulse and logic signals. Channel-to-channel isolation means wiring errors or overloaded channels do not affect neighbouring channels. Sensors are connected via rear mounted screw terminals. The built-in 3.5M memory is non-volatile so that data is retained even if the power supply is interrupted.



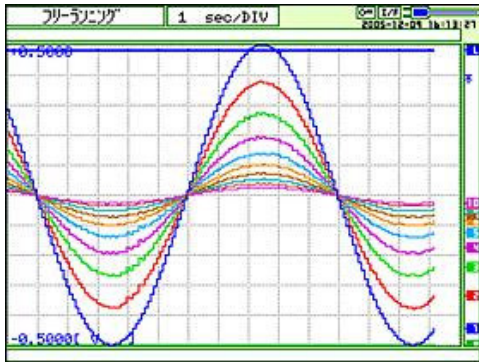
Two USB ports are provided, one for a USB memory device and one for linking to a PC. Commercially available USB memory devices may be used for direct capture of data. With a 512M device, users can capture data for up to 269 days (10 channels, 1 second sampling rate).

An optional battery pack is available for use where mains power is unavailable. The battery pack allows up to 6 hours of operation.

The GL200 is supplied with PC application software. The software allows for real-time waveform monitoring as well as data upload and data export to spreadsheets such as Excel.



LCD Screen Operation



CH	VALUE	Max	Min
1	+0.2014 v	+0.5013	-0.4990
2	+0.1512 v	+0.3789	-0.3783
3	+0.1100 v	+0.2739	-0.2726
4	+0.0782 v	+0.1971	-0.1970
5	+0.0551 v	+0.1418	-0.1413
6	+0.0409 v	+0.1034	-0.1020
7	+0.0291 v	+0.0739	-0.0735
8	+0.0203 v	+0.0529	-0.0522
9	+0.0159 v	+0.0385	-0.0388
10	+0.0108 v	+0.0267	-0.0278
PLS	0 RPM	0	0

All the GL200's functions can be accessed through the easy-to-use keypad and LCD screen. Single touch buttons for such tasks as display mode, setup and logging start/stop negate the need for complicated menu trees.

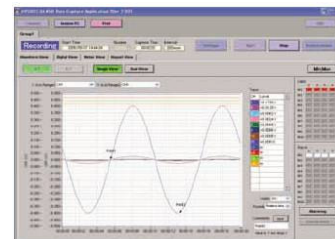


The bright easy-to-read 3.5" colour LCD screen makes it even easier to review measurement settings, measured waveforms and digital values.

Software

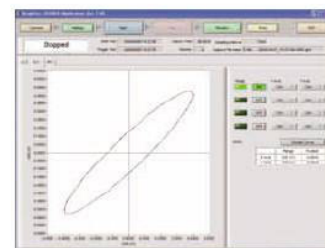
The GL200 is supplied with a copy of the OPS022 software. The OPS022 program provides excellent control over most GL Series functions, allowing PC control. It also provides convenient data transfer from the GL Series to your PC, as well as converting measured data into file formats that can be used with spreadsheet applications, data analysis applications, and other software programs.

Converted data can be easily processed in electronic spreadsheets and graphs using popular applications such as Excel



Features

- Configuration and channel setup via USB or ethernet
- Real time data storage to hard disk
- Stored data import from GL200
- email notification of errors and alarms
- Available measurement modes: Y-T, X-Y, and FFT
- Separate screens are available for each of the settings.
- Direct Excel transfer can be enabled as a report function



Specifications

		GL200
Number of channels		10 channels
Input Method		Photo MOS relay scanning system; all channels isolated
Measurement Ranges	Voltage	20, 50, 100 500,V; 1, 2, 5, 10, 20, 50V ; 1-5 v FS
	Temperature	Thermocouples: K, J, E, T, R, S, B, N, W
	Humidity	0-100% (Voltage 0V to 1V scaling conversion)
Scan Speed		0.1s/10 Ch Maximum
Trigger Functions	Repeat Trigger	Off, On
	Trigger Types	Start/Stop: Data capture starts/stops when a trigger is generated.
	Trigger Conditions	Off, Level, External digital, Date/Time
	Alarm Jugement	Analog: H, L, Windows In, Windows Out, Logic H,L, Pulse H,L
Alarm output	Output format	Open Collector output (100k pull-up resistance)
	Output Conditions	Level, window, logic pattern, pulse
Pulse/Logic Input		1Pulse input 1ch, Logic input 1ch
Pulse input	Revs mode	Spans 50, 500, 5000, 50k, 500k, 5M, 50M 500M RPM
	Counts Mode	Spans 50, 500, 5000, 50k, 500k, 5M, 50M 500M Counts/sec
	Inst. Mode	Spans 50, 500, 5000, 50k, 500k, 5M, 50M 500M Counts/ec
	Max number mode	Counts, Inst modes: 50k/smampling interval. Revs 50k/s
Internal memory capacity		3.5 Mb
External Memory device		USB Memory Stick
PC interface		USB 2.0
Display	Size	3.5" STN colour LCD (320 x 240 pixels)
	Displayed items	Waveforms + digital values, waveforms only, digital values only, digital values + calculated values
	Functions	Waveform expansion/compression, scaling, calc ulations, search
A/D Converter		16-bit
Input Impedance		1M Ohm \pm 5%
Withstand Voltage		Between input terminals and chassis 1minute at 350V p-p
Maximum Input Voltage		Between +/- terminals and input terminals and casing 60V p-p,
Operating Enviroment	Temperature	0 to 40°C
	Humidity	30 to 80% RH (non-condensing)
Power Supply		AC adapter (100 to 240 VAC, 50/60 Hz) DC input (8.5 to 24 VDC), Battery pack
External Dimensions		194 x 122 x 41 mm
Weight		480g

