**Between input channel terminals 1 minute at 1000 Vp-p**

**Withstand voltage**

Between input channel terminal and GND terminal 1 minute at 1000 Vp-p

**Mode H (Rising), L (Falling), Window In*2, Window Out*2**

**Combination Input signal level:** Level OR, Level AND, Edge OR, Edge AND

**Vibration-tested conditions**

Equivalent to automobile parts Type 1 Category A classification

**Weight (approx.)**

1.1 kg (excluding AC adapter and battery)

**Power consumption**

42 VA (when operating and charging battery with AC power)

**Memory**

Internal One million data points / Internal flash memory: Approx. 256 MB

**USB function**

USB drive mode (File transfer and deletion from internal GL900 memory)

**Ethernet functions**

Web server function, FTP server function, NTP client function

**Calculation functions**

Statistical calculations *4: Average, Peak, Maximum, Minimum, RMS (2 calculations can be set simultaneously)

**Inst. Mode**

50 to 20 M C/F.S. (in steps of 1, 2, or 5)

**Between input channel terminals 60 Vp-p**

**Maximum permissible input voltage**

Between input channel + and - terminals 20 mV to 1 V: ±30VDC

**A/D converter**

16 bits (out of which 14 bits are internally acknowledged)

**Reference contact compensation accuracy**

±1.0°C

**W** 0°C ≤ TS ≤ 2000°C ±(0.1% of rdg + 2.5°C)

**T** -200°C ≤ TS ≤ -100°C ±(0.1% of rdg + 2.5°C)

**E** -200°C ≤ TS ≤ -100°C ±(0.05% of rdg + 3.0°C)

**K** -200°C ≤ TS ≤ -100°C ±(0.05% of rdg + 3.0°C)

**B** 400°C ≤ TS  ≤ 600°C ±5.5°C

**Battery pack *6**: Option

DC input 8.5 to 24 VDC

**Condition Start:** Off, Input signal level (analog, logic/pulse), External* 1

**Alarm output *1**

Number of channels: 4, Open collector output (5V, 10 kΩ pull-up resistance)

**Alarm setting functions**

Rising, Falling, Window In* 2, Window Out*2

**Stop:** Off, Input signal level (analog, logic/pulse), External * 1, Scheduled time

**Timer functions**

Date and time, daily cycle, hourly cycle

**External input/output**

Trigger input (1 channel), Logic input (4 channels) or Pulse input (4 channels), other

**File conversion**

Data between cursors, All data

**Captured data**

Real-time data Binary: Sampling speed: 10 μs to 60 s

**Setting range**

Amp settings, data capture settings, trigger settings, alarm settings, other

**Supported OS**

Windows 2000, Windows XP, Windows Vista (32-bit and 64-bit versions)

**Control software specifications**

Data can also be saved to PC-friendly USB memory sticks

**Multifunction input on eight isolated channels**

High-speed simultaneous sampling on eight channels, 16-bit resolution

**Equipped with a large-format 5.7-inch color LCD for easy-to-read waveform display**

**8 isolated channels & high speed simultaneous sampling**

**NEW**
In compliance with various test requirements, this data logger is capable of performing high-speed simultaneous voltage and temperature measurements.

Easy-to-use upright high-speed isolated 8-channel multifunction logger

An easy-to-use upright device enabling isolated 8-channel multifunction input, the GL900 is capable of performing high-speed simultaneous measurements of voltage, temperature, and various other phenomena.

- V 
- ± 20 mV to ± 500 V
- Thermocouples: K, J, E, T, R, S, B, N, W
- 0 to 100% (the B-530 option is required)
- 4 channels: Count, Inst., Rpm
- 4 channels: Select either Pulse or Logic

High-speed isolated 8-channel multifunction logger
midi LOGGER
GL900

Data can be captured to PC-friendly USB memory sticks

Long-term data can be captured directly to built-in 256MB flash memory or to an external USB memory stick at sampling intervals of from 1 ms to 1 min. For high-speed sampling at intervals faster than 1 ms, up to one million data points can be captured to internal RAM.

Example of 6-channel analog measurement

<table>
<thead>
<tr>
<th>Channel</th>
<th>Voltage</th>
<th>Temperature</th>
<th>Current</th>
<th>Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel 1</td>
<td>5.6 V</td>
<td>25°C</td>
<td>1.2 A</td>
<td>50%</td>
</tr>
<tr>
<td>Channel 2</td>
<td>2.3 V</td>
<td>15°C</td>
<td>0.5 A</td>
<td>40%</td>
</tr>
<tr>
<td>Channel 3</td>
<td>7.8 V</td>
<td>30°C</td>
<td>1.5 A</td>
<td>60%</td>
</tr>
</tbody>
</table>

Can be used as an X-Y recorder

The GL900 reproduces analog X-Y recorder movements and provides the illusion of pen movements even during high-speed sampling – ideal for performing combined voltage and temperature measurements.

High-precision temperature measurement even during high-speed sampling

Lets users perform high-precision temperature measurements even during high-speed sampling – ideal for performing combined voltage and temperature measurements.

Comprehensive built-in trigger and timer functions

Using a combination of trigger and timer functions eliminates superfluous data and enables capture of only the required data.

Example of trigger and timer settings

- To perform measurements over a four-day period starting January 10:
  - Trigger setting: Start trigger
  - Stop setting: 20 minutes 00 seconds
- To perform measurements every 20 minutes:
  - Trigger setting: Start trigger
  - Stop setting: 20 minutes 00 seconds
- To perform measurements for a period of one hour, every four hours, daily:
  - Trigger setting: Start trigger
  - Stop setting: Scheduled time (one hour)
- To perform measurements for a period of five minutes, every hour, every day:
  - Trigger setting: Start trigger
  - Stop setting: Scheduled time (five minutes)

High-voltage measurement capability

The wide 500 V range enables 100 to 240 VAC power supply voltage waveform measurements. Using logic input and a clamp meter simultaneously allows measurement of a device’s power supply voltage and current concurrently with sequential control of various points.

Built-in, large-format 5.7-inch color LCD for easy-to-read waveforms

The bright, easy-to-read large-format 5.7-inch color TFT LCD provides vivid, easy-to-read waveform displays. Cursor keys enable fast, easy control and setup. The waveform display can be scrolled at high-speed – 10 ms/DIV.

Easy PC measurement via USB; remote monitoring via Ethernet web server and FTP functions

The USB and Ethernet connections enable transfer of captured data to your PC and setup and control of the GL900 from a PC, even without the PC software provided standard with the GL900.

Web server/FTP server functions

Waveform display and GL900 setup operations can be performed via a web browser (e.g., Internet Explorer). In addition, data files captured to the GL900’s internal memory or to a USB memory stick can be transferred or deleted from the PC.

USB drive mode

When your GL900 is connected to your PC via the USB interface, the GL900 can be operated in USB mode to enable fast, easy data transfers from internal memory to the PC.

NTP client function

Simply connect the GL900 to an NTP server via an Ethernet connection to synchronize GL900 time with NTP server time at periodic intervals.

Dedicated software for real-time data capture

Three measurement screens are provided to allow selection of the screen that best suits measurement needs. The Replay screen provides a Zoom screen feature to enable enlarged display of specific sections of long-term measurement data.

Simple operations for anyone

- Easy-to-use software using icon keys for intuitive operations
- Various convenient data-processing functions are built-in:
  - Direct to Excel function
  - CSV batch conversion function
  - Search function
  - Search function
  - CSV batch conversion function
  - Direct to Excel function

Convenient functions

Various convenient data-processing functions are built-in:

- Direct to Excel function
- CSV batch conversion function
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Web server/FTP server functions

Web server/FTP server functions