GL900 main unit specifications

- Input method: All channels isolated, Imbalanced input, Simultaneous sampling of all channels
- Display unit: 5.7-inch TFT color LCD
- Display screens: Waveforms + digital values, enlarged waveforms, digital values + calculation results, X-Y
- Power: AC adapter 100 to 240 VAC, 50 to 60 Hz
- Operating environment: 0 to 40 °C, 5 to 85% R.H. (15 to 35 °C)
- Measurement voltage: ±0.25% of F.S.
- Accuracy: ±0.05% of F.S. + 1 LSB ±0.05% of reading + 0.01 °C
- Input range: 100 to 400 V
- DC drive cable: RIC-420 1.1 m
- L-shaped K-type thermocouple for static surfaces: RIC-430 1.1 m
- Rod-shaped K-type thermocouple: RIC-410
- K-type thermocouple: RIC-420 (for static surfaces)
- Humidity sensor: B-513
- DC drive cable: B-517
- CM-112 (Clamp adapter)
- CM-113 (Leak clamp)
- CM-114
- CM-211

Control software specifications

- Web server function, FTP server function, NTP client function
- Data can also be saved to a USB memory stick
- 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
- Data can also be saved to a PC-friendly USB memory stick

Multifunction input on eight isolated channels

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

8 isolated channels & high speed simultaneous sampling

- 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
- Data can also be saved to a PC-friendly USB memory stick

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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.

#### Voltage
- +/-20 mV to +/-500 V

#### Thermocouples:
- K, J, E, T, R, S, B, N, W

#### Resolution
- 0 to 100% (the B-530 option is required)

#### Power
- 4 channels
- Curr, Inst., Rpm

#### Logic
- 4 channels
- Select either Pulse or Logic

#### BNC terminal for voltage measurement

#### M3 screw terminal for temperature measurement

#### External USB memory stick (512 MB)

#### Internal flash memory (256 MB)

#### Internal RAM

#### Data capture

**Example of 8-channel analog measurement**

<table>
<thead>
<tr>
<th>Channel</th>
<th>Data Type</th>
<th>Data Source</th>
<th>Data Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH1</td>
<td>Voltage</td>
<td>BNC terminal</td>
<td>2.0 V</td>
</tr>
<tr>
<td>CH2</td>
<td>Temperature</td>
<td>M3 screw terminal</td>
<td>30°C</td>
</tr>
<tr>
<td>CH3</td>
<td>Logic</td>
<td>External input</td>
<td>On</td>
</tr>
<tr>
<td>CH4</td>
<td>Logic</td>
<td>External input</td>
<td>Off</td>
</tr>
</tbody>
</table>

#### Data can be captured to PC-friendly USB memory sticks

Long-term data can be captured directly to built-in 256-MB 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 points can be captured to internal RAM.

### High-voltage measurement capabilities

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/CV.

### Free Running display for waveform-checking without the need for data capture

The Free Running display lets users check input signal waveforms even before measurements begin. Since waveforms are displayed on each setup screen, users can make settings while viewing the waveforms.

### Easy PC measurement via USB; remote monitoring via ethernet

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

These 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

#### Convenient functions

Various convenient data-processing functions are built in.

- Direct to Excel function
- Search function
- CSV batch conversion function
- Thumbnails function

### Comprehensive built-in trigger and timer functions

Using a combination of trigger and timer functions eliminates s

#### To perform measurements over a four-day period starting January 10

<table>
<thead>
<tr>
<th>Date and time settings</th>
<th>Start settings</th>
<th>Stop settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start: 10:00</td>
<td>Stop: 11:00</td>
<td></td>
</tr>
<tr>
<td>Start: 14:00</td>
<td>Stop: 15:00</td>
<td></td>
</tr>
</tbody>
</table>

#### To perform measurements of abnormal signals during device operations

<table>
<thead>
<tr>
<th>Interval</th>
<th>Start settings</th>
<th>Stop settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 min.</td>
<td>Start: 10:00</td>
<td>Stop: 11:00</td>
</tr>
<tr>
<td>10 min.</td>
<td>Start: 14:00</td>
<td>Stop: 15:00</td>
</tr>
<tr>
<td>30 min.</td>
<td>Start: 19:00</td>
<td>Stop: 20:00</td>
</tr>
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</table>

#### To perform measurements every 20 minutes

<table>
<thead>
<tr>
<th>Time</th>
<th>Start settings</th>
<th>Stop settings</th>
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<tbody>
<tr>
<td>20 min.</td>
<td>Start: 10:00</td>
<td>Stop: 10:20</td>
</tr>
<tr>
<td>40 min.</td>
<td>Start: 12:00</td>
<td>Stop: 12:40</td>
</tr>
<tr>
<td>60 min.</td>
<td>Start: 14:00</td>
<td>Stop: 14:60</td>
</tr>
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</table>

#### To perform measurements of a period of one hour, every four hours

With the timer set to daily cycle mode, data is captured repeatedly for one hour every four hours.

<table>
<thead>
<tr>
<th>Interval</th>
<th>Start settings</th>
<th>Stop settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 hour</td>
<td>Start: 10:00</td>
<td>Stop: 11:00</td>
</tr>
<tr>
<td>4 hours</td>
<td>Start: 14:00</td>
<td>Stop: 15:00</td>
</tr>
<tr>
<td>8 hours</td>
<td>Start: 18:00</td>
<td>Stop: 19:00</td>
</tr>
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### Data capture

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### Data transfer to PC

### Data processing

#### Cursor keys

- Navigate through setup and measurement screens

#### replay screen

Zoom feature to enable enlarged display of specific sections of long-term measurement data.

#### Display waveform operation window

- Display waveform operation window
- Display comment input window
- Display cursor window

#### Display Search window

- Enable display of captured data files as thumbnails
- Search for specific values in captured data

#### Direct to Excel function

- Easy-to-use software using icon keys for intuitive operations
- Various convenient data-processing functions are built in.