## Analog input specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of input terminal</td>
<td>Screw terminal (M3 screw)</td>
</tr>
<tr>
<td>Number of analog input channels</td>
<td>10 ch</td>
</tr>
<tr>
<td>Input method</td>
<td>Scans by the photo-MOS-relay, all channels isolated, balanced input</td>
</tr>
<tr>
<td>External input/output</td>
<td></td>
</tr>
<tr>
<td>Sampling interval</td>
<td>10 ms to 1 h (in 10ms to 50ms, voltage only and limited channel), External</td>
</tr>
<tr>
<td>Temperature</td>
<td>Thermocouple: K, J, E, T, R, S, B, N, and W (WRe5-26)</td>
</tr>
<tr>
<td>Humidity</td>
<td>0 to 100% (using humidity sensor (B-530 optional), power is supplied to only one sensor)</td>
</tr>
<tr>
<td>Time scale</td>
<td>1 sec to 24 hour /division</td>
</tr>
<tr>
<td>Filter</td>
<td>Off, 2, 5, 10, 20, 40 (moving average in selected number)</td>
</tr>
<tr>
<td>Action</td>
<td></td>
</tr>
<tr>
<td>Trigger function</td>
<td>Source Start: Off, Input signal, Alarm, External</td>
</tr>
<tr>
<td>Measurement</td>
<td>10-channel handy-type logger</td>
</tr>
<tr>
<td>Measurement range</td>
<td>Thermocouple: 100 °C &lt; TS /g148 300 °C, Logic: Rising, Falling, Window-in, Window-out</td>
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<td>Accuracy</td>
<td>± (0.05 % of reading + 2.0 °C)</td>
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<td>Alarm output</td>
<td>400 °C /g148 TS /g148 600 °C</td>
</tr>
<tr>
<td>Pulse input</td>
<td>400 °C /g148 TS /g148 600 °C</td>
</tr>
<tr>
<td>Rotation count (RPM) mode</td>
<td>-100 °C &lt; TS /g148 400 °C</td>
</tr>
<tr>
<td>Voltage</td>
<td>± 2.7 °C</td>
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<tr>
<td>Measurement range</td>
<td>-100 °C /g148 TS /g148 -100 °C</td>
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Handy-type Logger with huge 2GB Flash Memory

NEW

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 wiring concerns. The GL220s multi-type input is suitable for voltage, temperature, humidity, pulse, and logic signals, enabling combined measurements of different phenomena like temperature/humidity and voltages.

- **Voltage**
  - Ranges form 20 mV to 50 V

- **Thermocouple types**: K, J, T, R, S, B, N, W (WRe5-26)

- **Humidity**
  - 0 to 100%RH

- **Pulse**
  - Accumulating, instant or RFM

- **Logic**
  - 4 channels

*Selected Pulse Input or Logic Input and use the optional Logic inputs cable (D19 option)

4.3-inch WVQGA TFT colour LCD

Utilises a bright clear 4.3-inch wide TFT color LCD monitor (WVQGA: 480 x 272 dots). Makes it easy to read data in waveform or digital form and to check your measurement parameter settings.

- **Waveform display (Analog + Digital)**
- **Dual display (Current + Past)**
- **Waveform display (Analog only)**
- **Digital display**

Easy operation and device setup

Ergonomically designed and easy to operate, just like a mouse. The input terminals and keyboard 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 while viewing the waveform.

- **Supports USB memory device**
- **Easy connection to PC**
  - Captured data can be saved directly to USB memory sticks when those are chosen for external storage. In addition, the GL220 can be controlled by a PC if connected by USB cable, allowing transfer of data to a PC in real-time. If you need to move large data files to your PC then the GL220 can emulates an external USB drive for quick data transfer.

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 interrupted. If the capacity of the battery pack goes low then measurement is automatically terminated and the captured data file is closed and protected.

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

External sampling function

Captured data can be synchronised with external timing signals when the external sampling rate function is used.

Calculation function

Measured data can be computed with other channels in real-time. Four arithmetic functions can be selected. The calculation result is saved as measured data when the built-in memory or the USB memory stick is selected as the destination for the captured data.

Various measurement screens

Select from 4 screens such as the X-Y (waveform + digital), VT (large waveform), digital view and report view to display measurements in real-time. The direct-Excel function enables captured data to be written directly to an Excel file.

Substantial data replay screens

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

Easy application software

- **Report display**
- **Direct-Excel display**
- **Waveform (Y-T) display**
- **Digital display**
- **X-Y (specified data) display**

Simple configuration screens

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

Useful functions

Post-process your captured data with useful functions for arithmetic calculation, statistical calculation, search and file format conversion.

Typical applications for the GL220 midi LOGGER

- **Recording data from an analyser**
  - Measuring temperature in an environmental chamber
  - Evaluation tests for batteries
  - Measuring cell voltage and temperatures of fuel
  - Temperature measurements at various points.

- **Ozone measuring device**

- **Recording temperature of electronic components in an environmental chamber during an evaluation test.**

- **Suitable for measuring high-speed phenomena**
  - 4 or 8 isolated channels, each with multifunction input
  - High-speed simultaneous sampling up to 10fps, 16-bits resolution
  - Large easy-to-read 5.7-inch TFT color LCD
  - Includes X-Y graph display function in real-time

- **Captive data can be saved to PC-friendly USB memory stick**